

7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

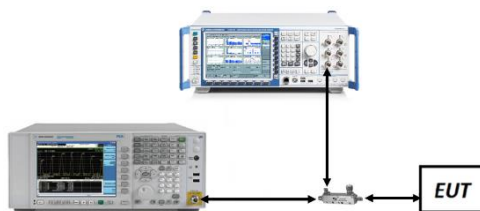


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

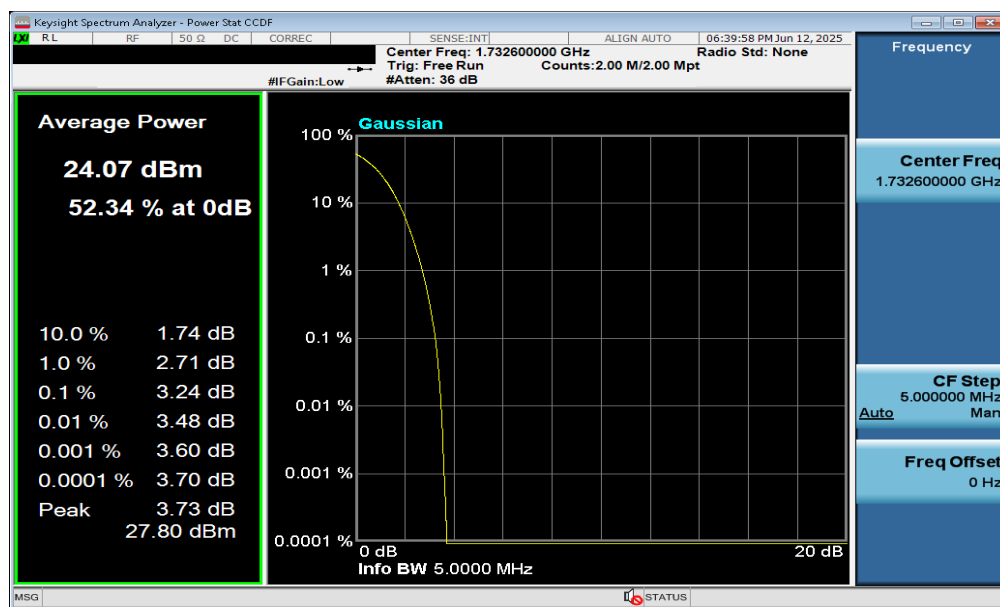
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 84 of 125

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
WCDMA-AWS	5MHz	GMSK	24.07	3.24	13	-9.76
LTE-B66-4	20MHz	QPSK	24.33	5.75	13	-7.25
		256QAM	20.43	6.86	13	-6.14
	15MHz	QPSK	24.26	5.80	13	-7.20
		256QAM	20.39	6.83	13	-6.17
	10MHz	QPSK	24.31	5.78	13	-7.22
		256QAM	20.42	6.80	13	-6.20
	5MHz	QPSK	24.33	5.82	13	-7.18
		256QAM	20.43	6.78	13	-6.22
	3MHz	QPSK	24.32	5.82	13	-7.18
		256QAM	20.46	6.77	13	-6.23
	1.4MHz	QPSK	24.28	5.91	13	-7.09
		256QAM	20.39	7.02	13	-5.98
NR-n66	40MHz	$\pi/2$ BPSK	24.24	5.17	13	-7.83
		QPSK	21.87	8.33	13	-4.67
		256QAM	18.36	8.68	13	-4.32
	30MHz	$\pi/2$ BPSK	24.25	4.64	13	-8.36
		QPSK	21.88	8.18	13	-4.82
		256QAM	18.34	8.59	13	-4.41
	25MHz	$\pi/2$ BPSK	24.41	4.92	13	-8.08
		QPSK	21.98	8.32	13	-4.68
		256QAM	18.46	8.74	13	-4.26
	20MHz	$\pi/2$ BPSK	24.43	4.67	13	-8.33
		QPSK	22.03	8.25	13	-4.75
		256QAM	18.53	8.61	13	-4.39
	15MHz	$\pi/2$ BPSK	24.47	4.75	13	-8.25
		QPSK	22.06	8.26	13	-4.74
		256QAM	18.51	8.63	13	-4.37
	10MHz	$\pi/2$ BPSK	24.45	4.70	13	-8.30
		QPSK	22.02	8.25	13	-4.75
		256QAM	18.54	8.64	13	-4.36
	5MHz	$\pi/2$ BPSK	24.54	4.74	13	-8.26
		QPSK	22.09	8.23	13	-4.77
		256QAM	18.55	8.71	13	-4.29

Table 7-12. Peak-Average Ratio Results – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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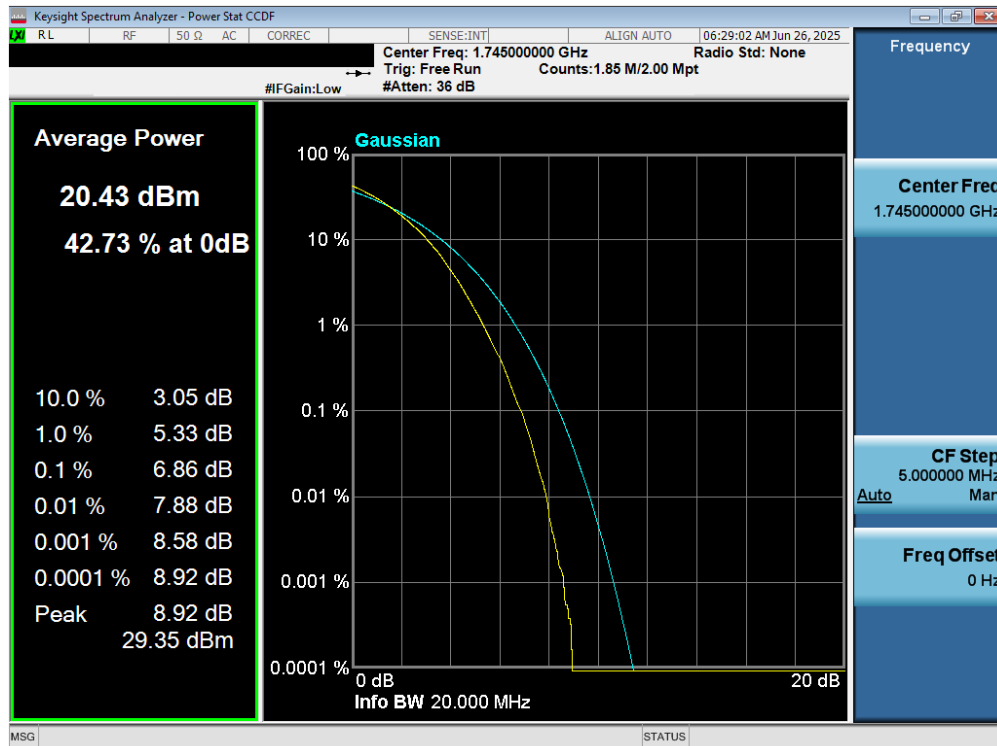
WCDMA AWS – ANT1



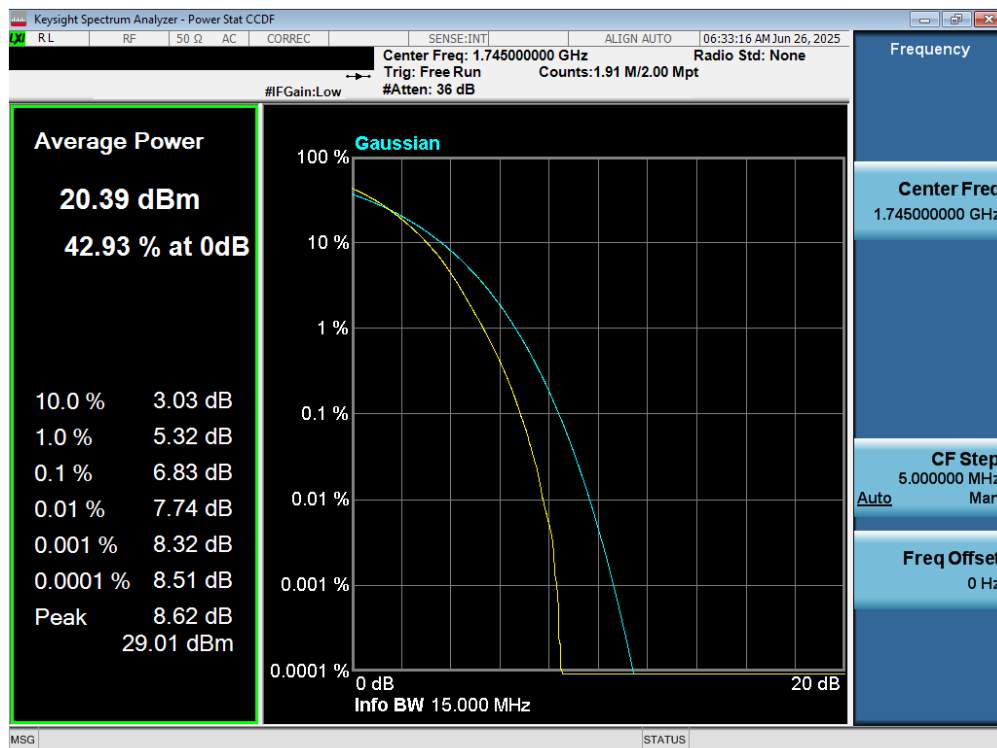
Plot 7-103. PAR Plot (WCDMA, Ch. 1413 – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT1

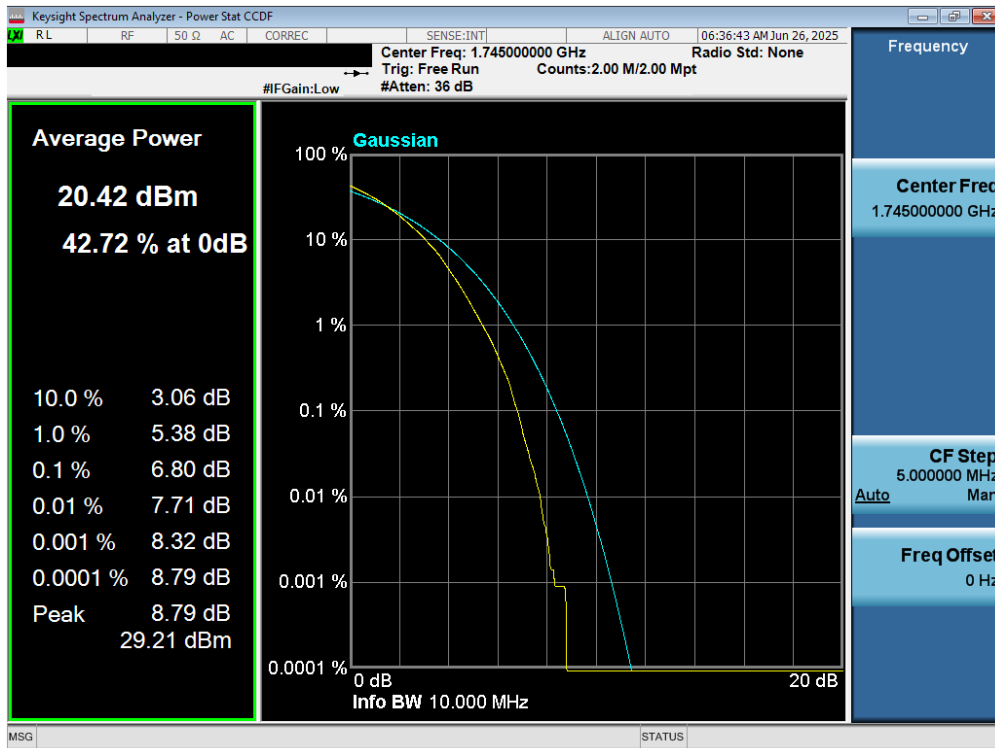


Plot 7-104. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT1)

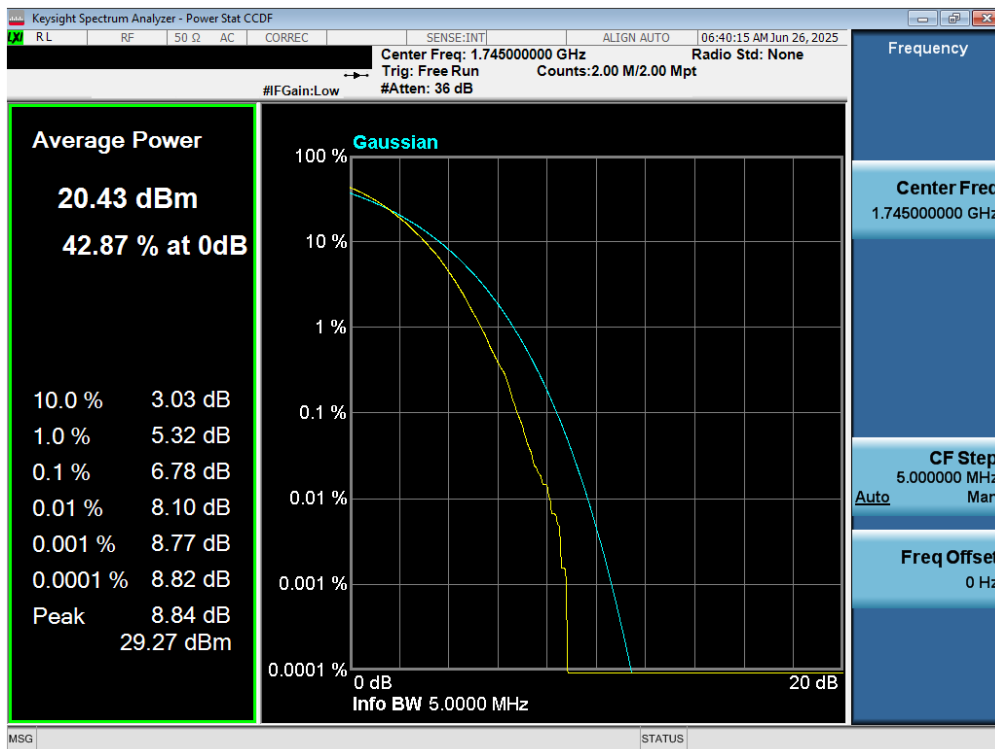


Plot 7-105. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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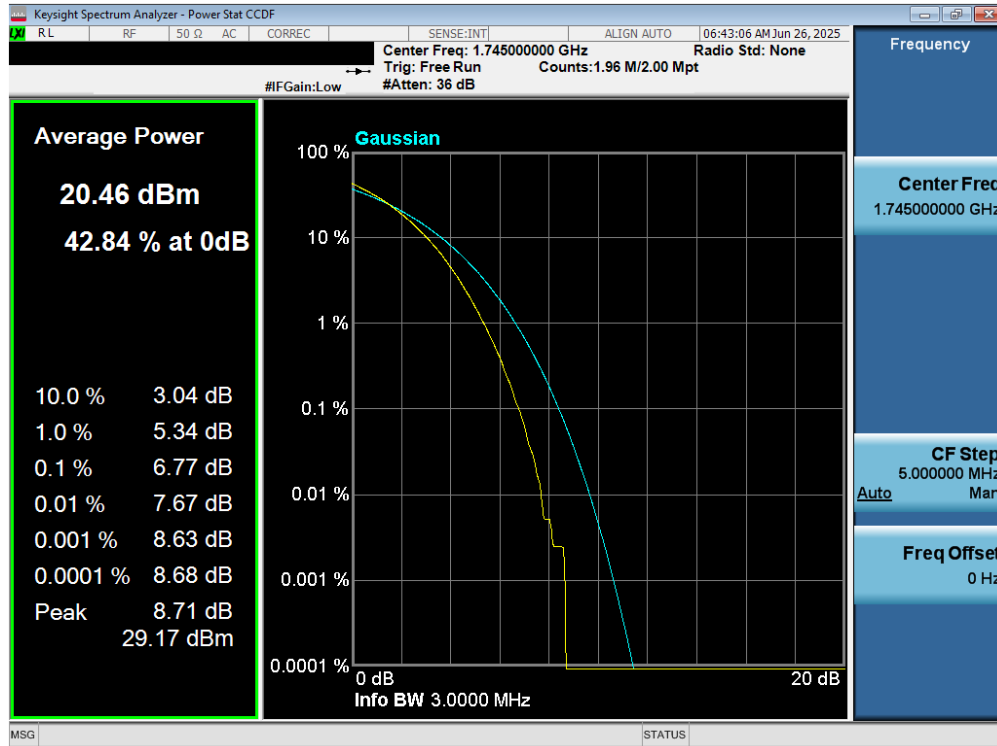


Plot 7-106. PAR Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB - ANT1)

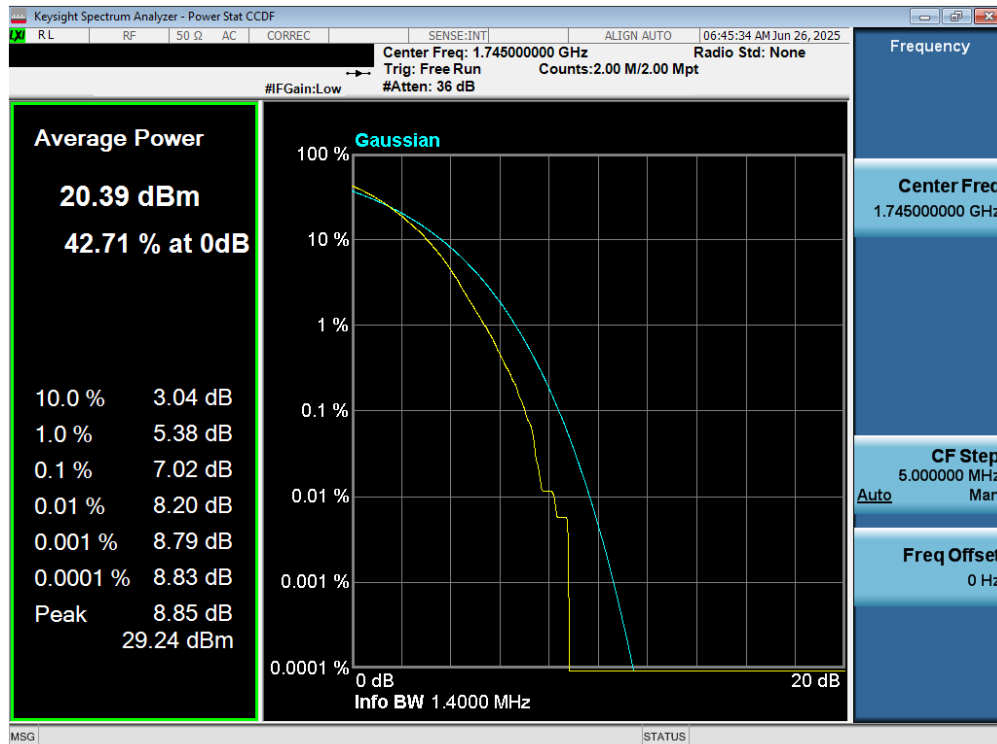


Plot 7-107. PAR Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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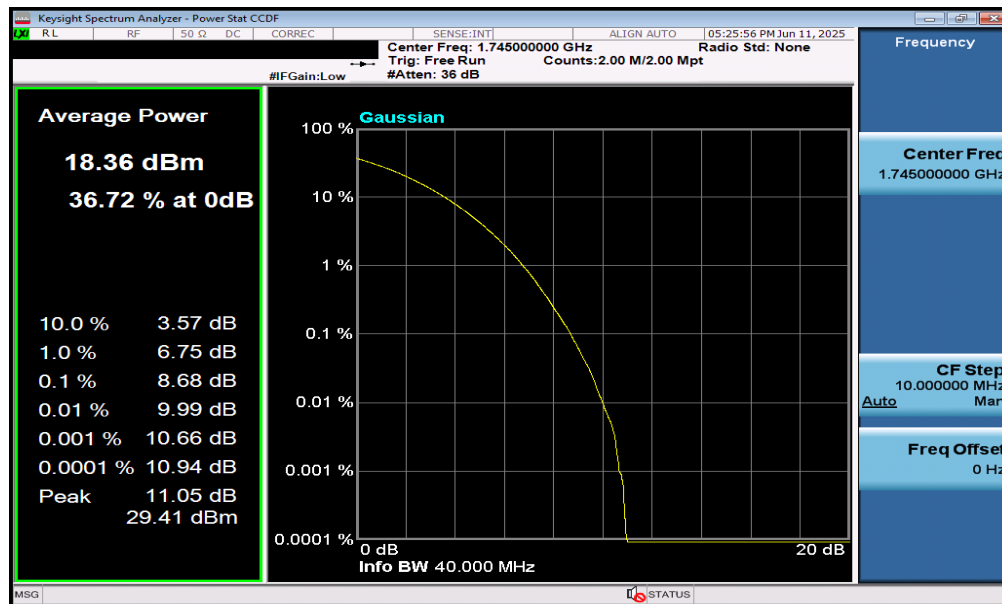
Plot 7-108. PAR Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB - ANT1)



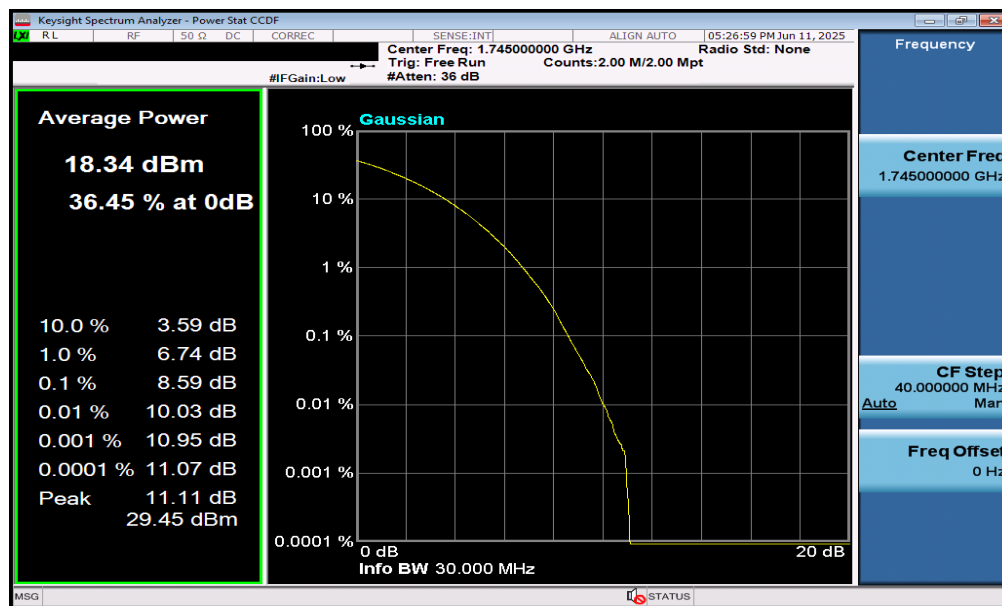
Plot 7-109. PAR Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT1

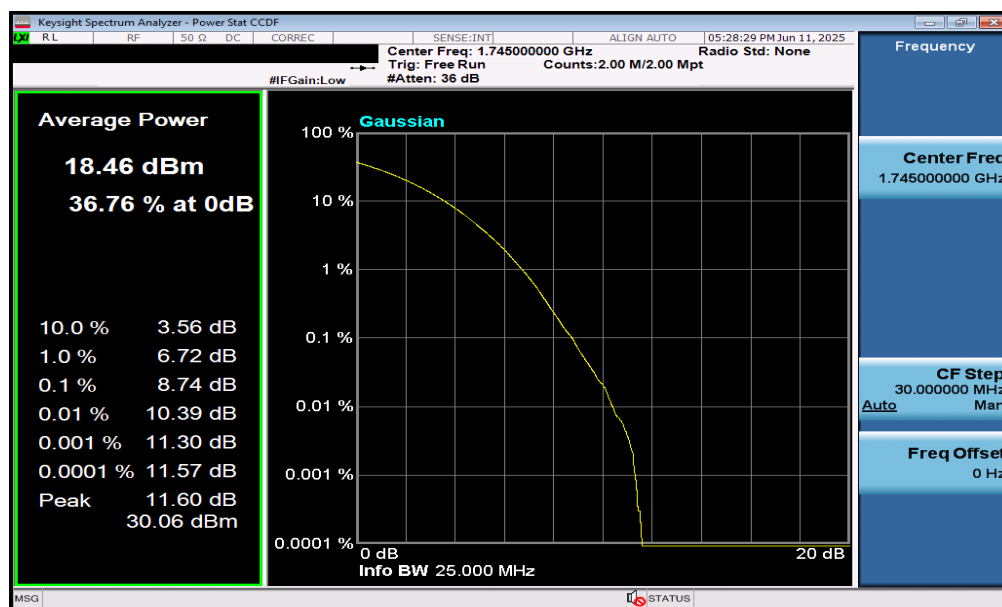


Plot 7-110. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

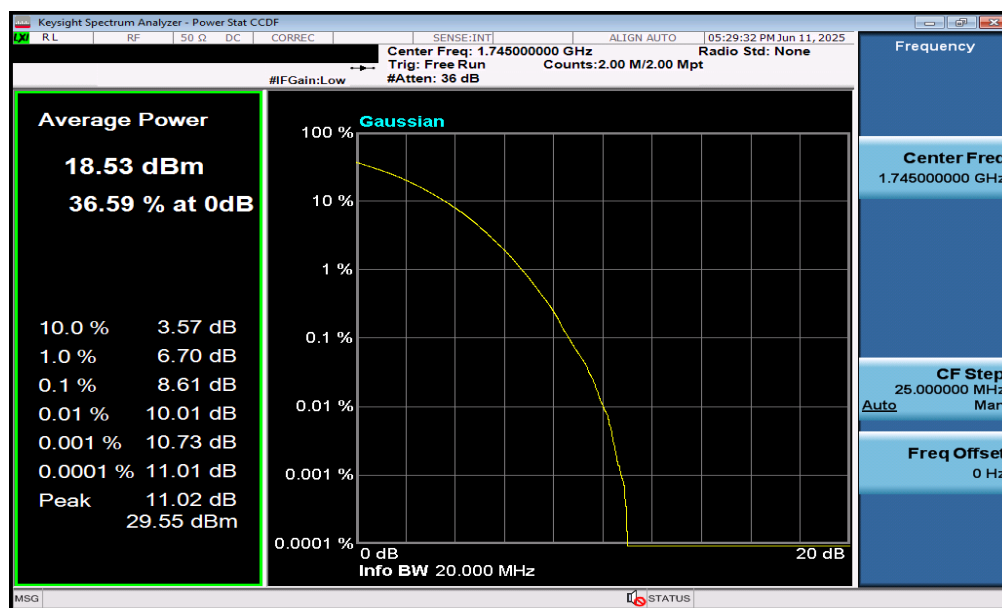


Plot 7-111. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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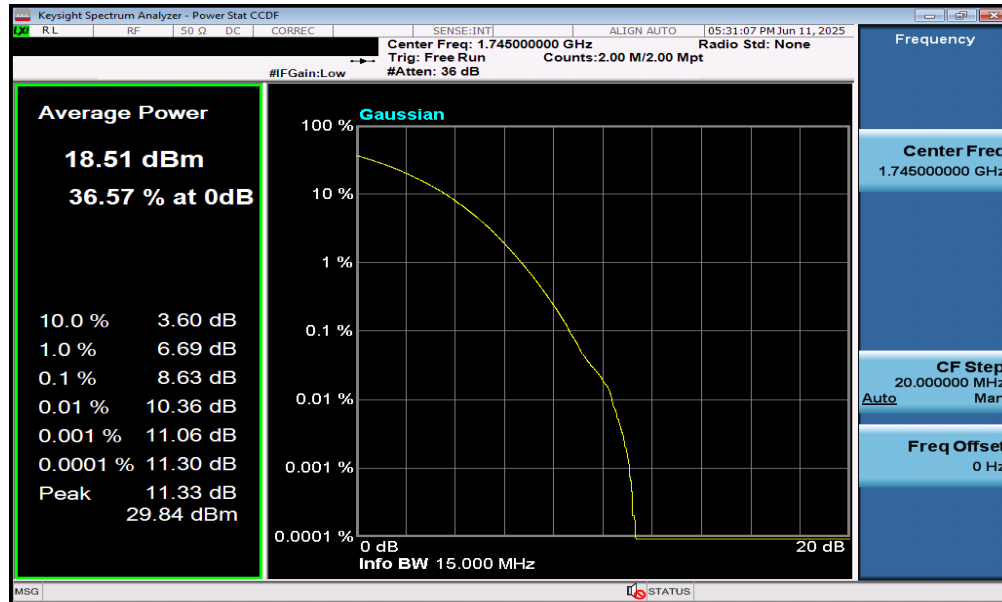


Plot 7-112. PAR Plot (NR Band n66 - 25.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

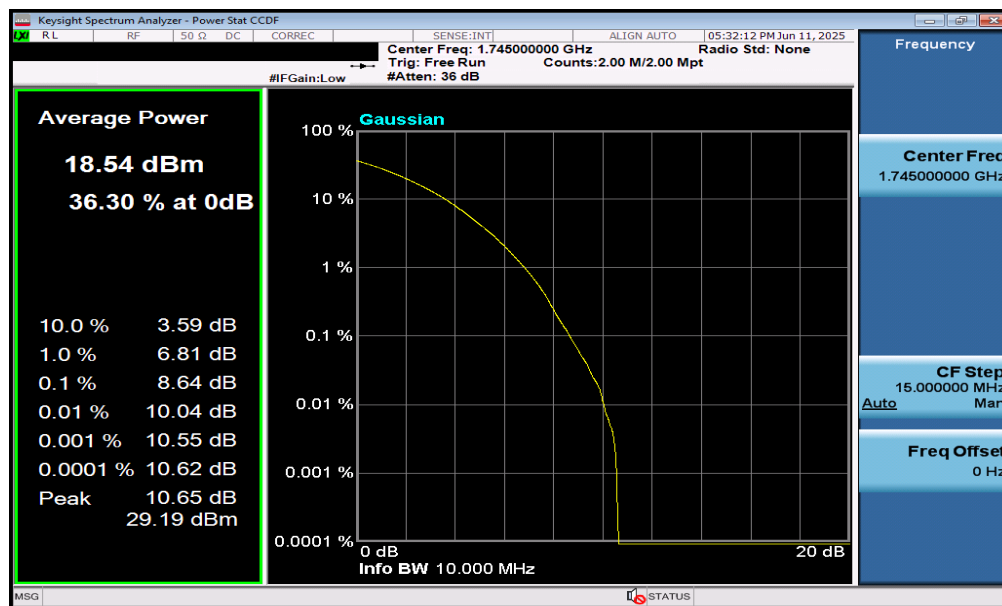


Plot 7-113. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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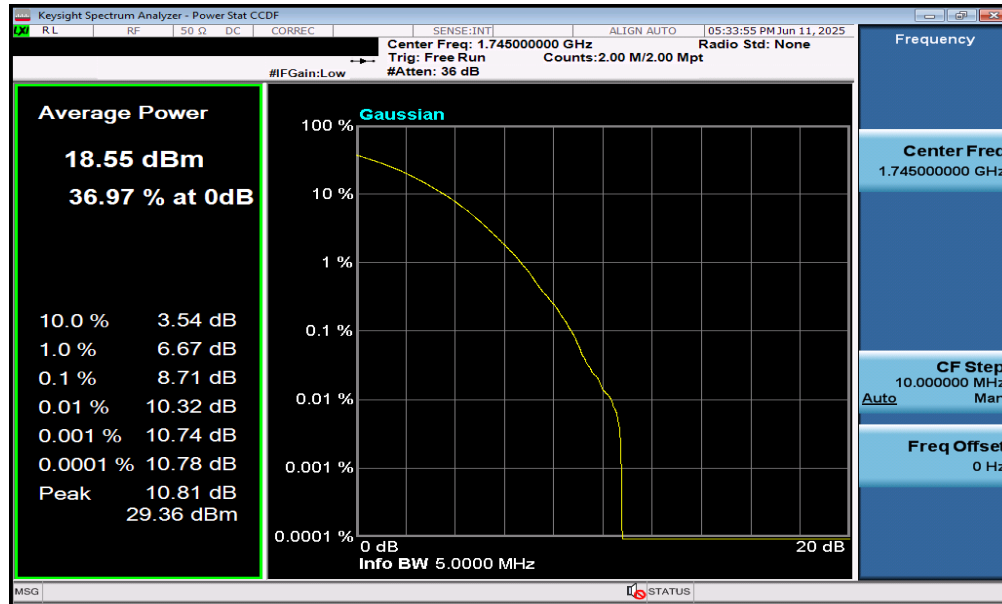


Plot 7-114. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)



Plot 7-115. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-116. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

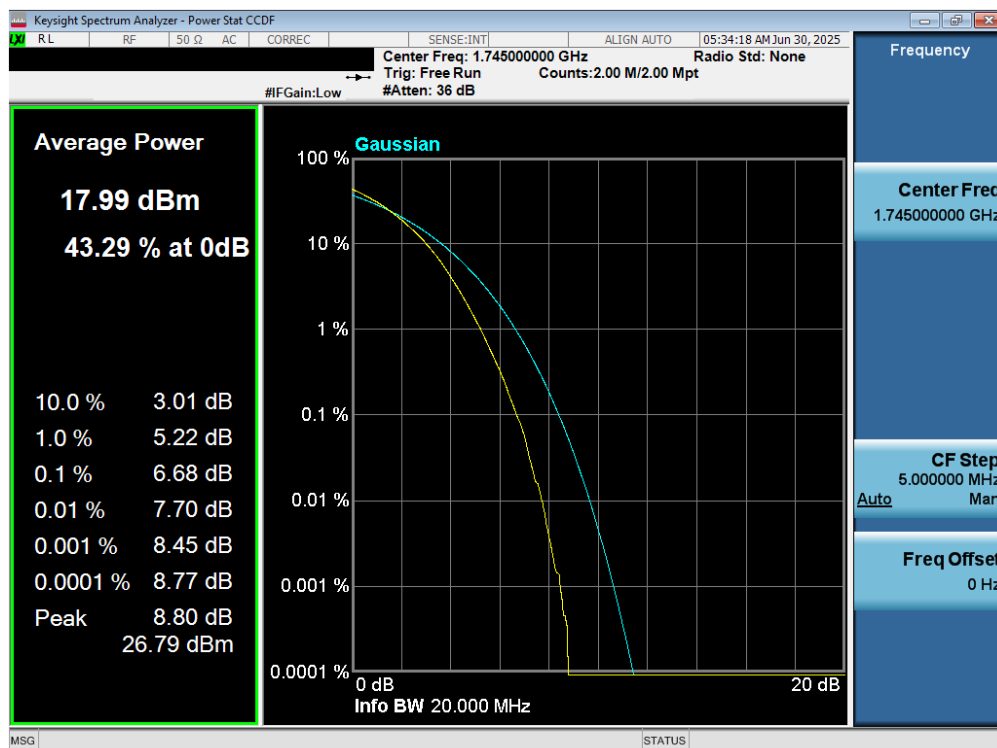
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE-B66-4	20MHz	QPSK	22.01	5.62	13	-7.38
		256QAM	17.99	6.68	13	-6.32
	15MHz	QPSK	22.49	5.67	13	-7.33
		256QAM	18.45	6.60	13	-6.40
	10MHz	QPSK	22.54	5.71	13	-7.29
		256QAM	18.54	6.59	13	-6.41
	5MHz	QPSK	22.53	5.75	13	-7.25
		256QAM	18.49	6.58	13	-6.43
	3MHz	QPSK	22.46	5.75	13	-7.25
		256QAM	18.46	6.61	13	-6.39
	1.4MHz	QPSK	22.50	5.70	13	-7.30
		256QAM	18.46	6.81	13	-6.19

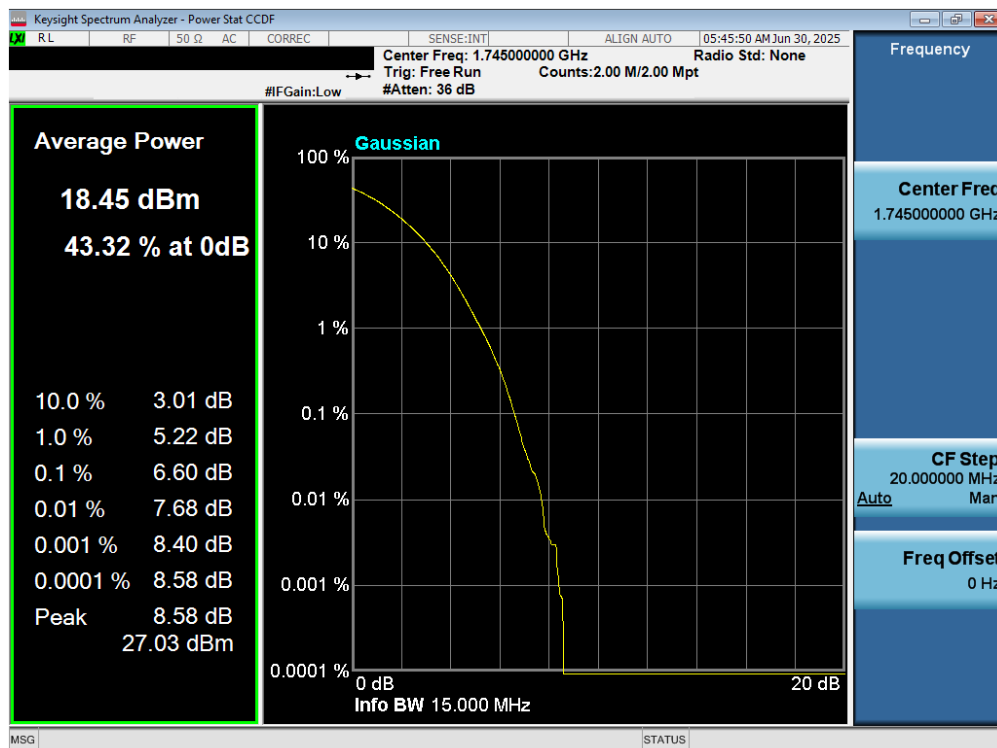
Table 7-13. Peak-Average Ratio Results – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT2

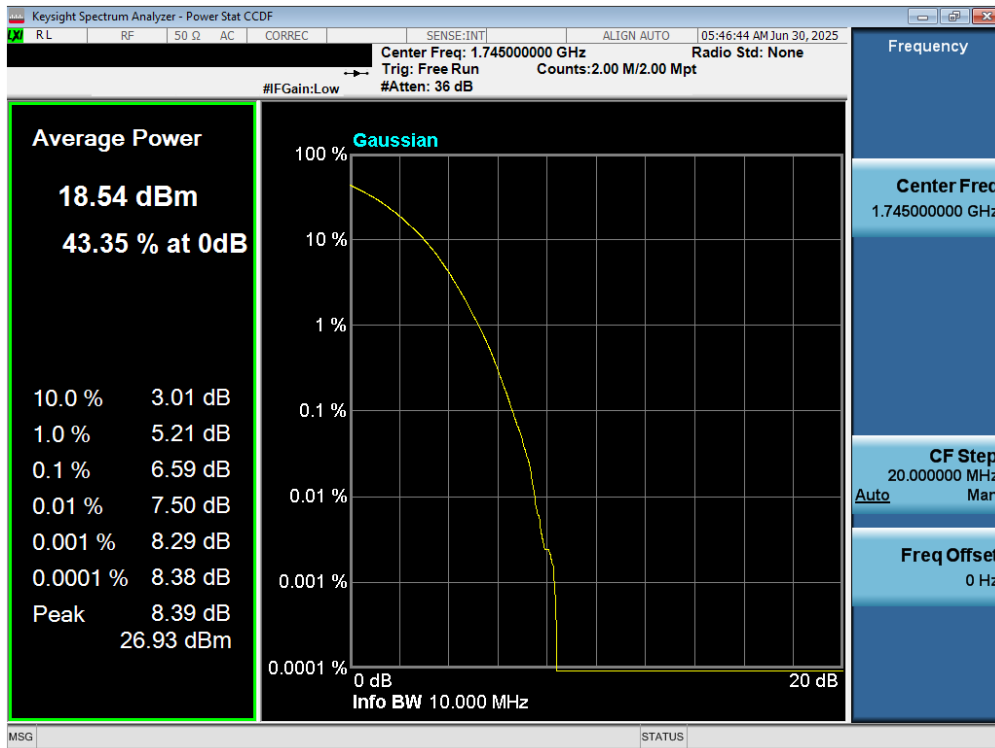


Plot 7-117. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT2)

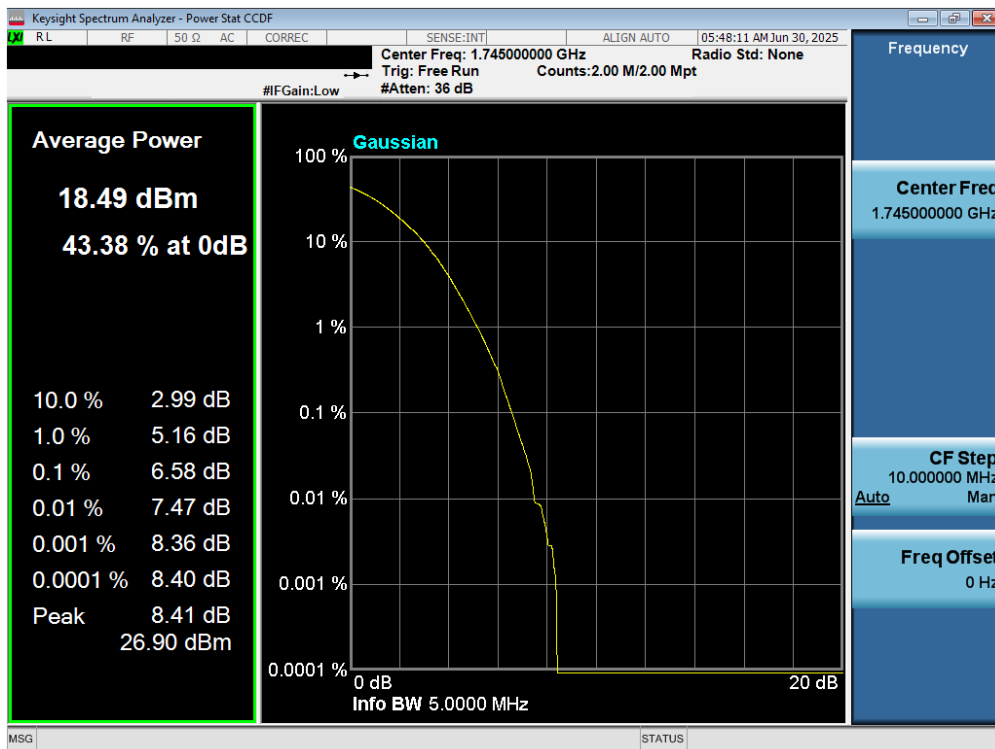


Plot 7-118. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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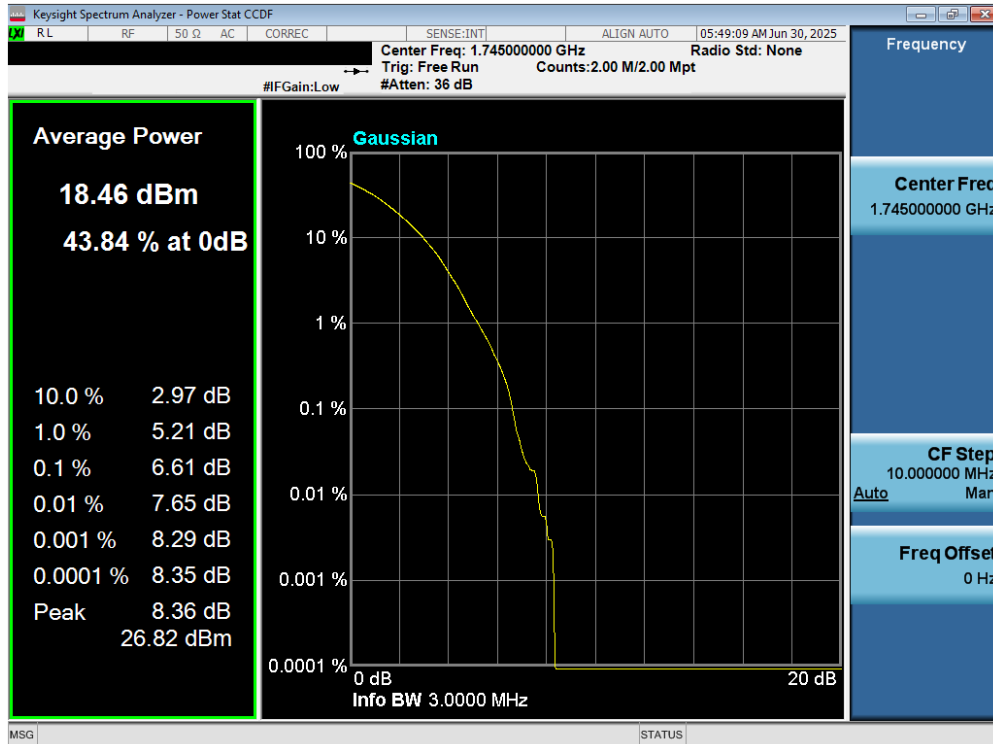


Plot 7-119. PAR Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB - ANT2)

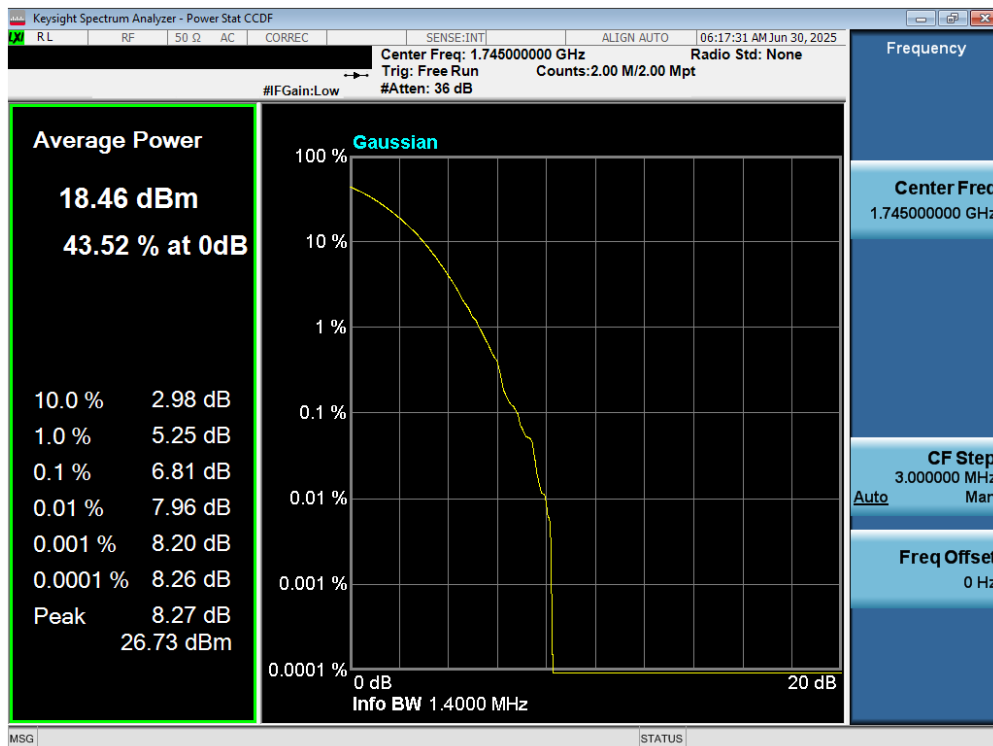


Plot 7-120. PAR Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-121. PAR Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB - ANT2)



Plot 7-122. PAR Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

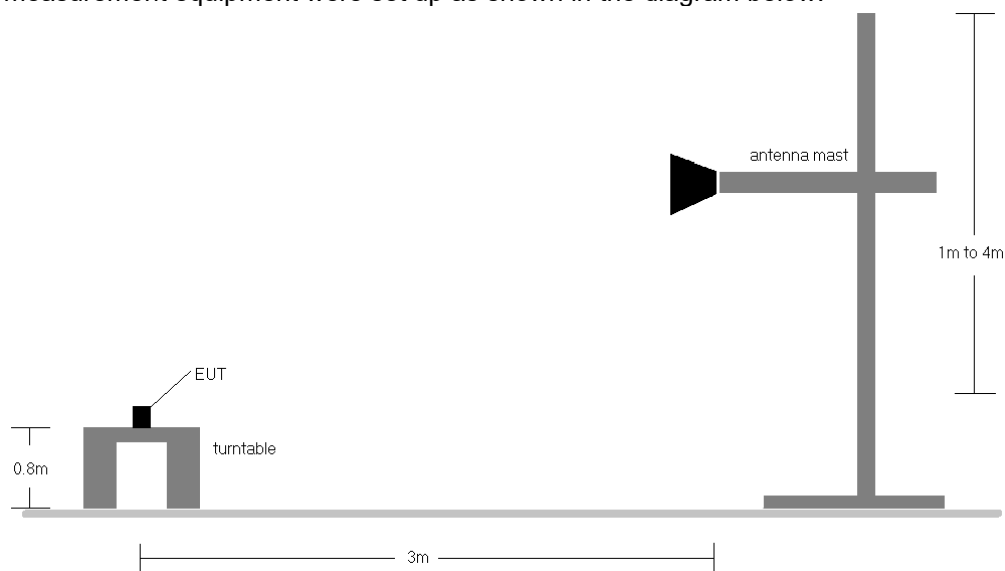


Figure 7-6. Radiated Test Setup <1GHz

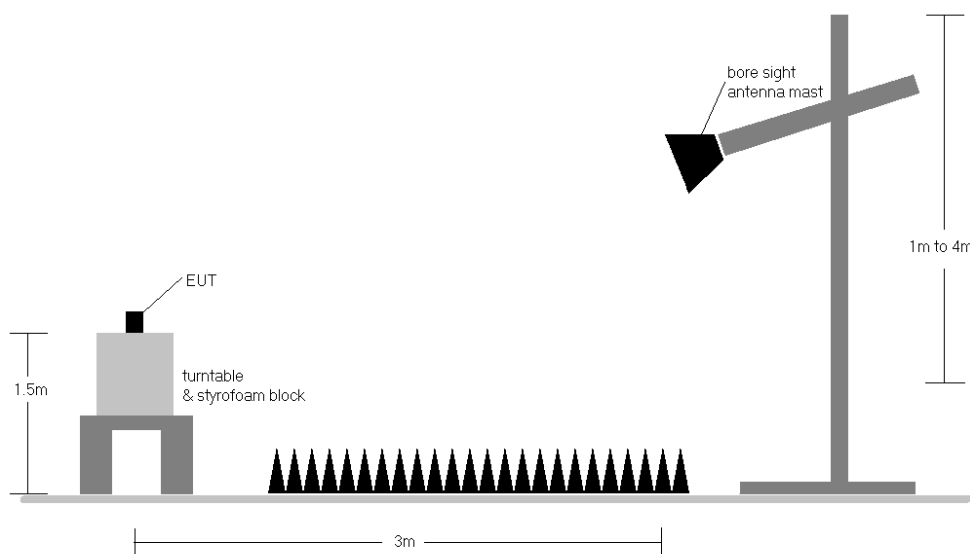


Figure 7-7. Radiated Test Setup >1GHz

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) This unit was tested with its standard battery.
- 4) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	H	127	49	20.12	2.88	23.00	0.200	30.00	-7.00
1732.60	WCDMA1700	H	123	36	20.25	2.92	23.17	0.208	30.00	-6.83
1752.60	WCDMA1700	H	159	123	19.34	2.96	22.30	0.170	30.00	-7.70

Table 7-14. EIRP Data (WCDMA AWS) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	V	142	116	1.12	1 / 25	22.08	23.20	0.209	36.99	-13.79	21.05	0.127	34.77	-13.72
	QPSK	707.50	V	149	123	1.14	1 / 0	21.89	23.03	0.201	36.99	-13.95	20.88	0.123	34.77	-13.89
	QPSK	711.00	V	149	119	1.17	1 / 0	21.90	23.07	0.203	36.99	-13.92	20.92	0.124	34.77	-13.85
	16-QAM	704.00	V	142	116	1.12	1 / 25	21.35	22.47	0.176	36.99	-14.52	20.32	0.108	34.77	-14.45
5 MHz	QPSK	701.50	V	142	116	1.10	1 / 24	22.01	23.11	0.205	36.99	-13.88	20.96	0.125	34.77	-13.81
	QPSK	707.50	V	149	123	1.14	1 / 24	21.79	22.93	0.196	36.99	-14.06	20.78	0.120	34.77	-13.99
	QPSK	713.50	V	149	119	1.19	1 / 24	22.05	23.24	0.211	36.99	-13.75	21.09	0.128	34.77	-13.68
	16-QAM	701.50	V	142	116	1.10	1 / 24	21.47	22.57	0.181	36.99	-14.42	20.42	0.110	34.77	-14.36
3 MHz	QPSK	700.50	V	142	116	1.09	1 / 14	22.12	23.21	0.209	36.99	-13.78	21.06	0.128	34.77	-13.71
	QPSK	707.50	V	149	123	1.14	1 / 7	21.88	23.03	0.201	36.99	-13.96	20.88	0.122	34.77	-13.90
	QPSK	714.50	V	149	119	1.20	1 / 0	21.98	23.18	0.208	36.99	-13.81	21.03	0.127	34.77	-13.75
	16-QAM	714.50	V	149	119	1.20	1 / 0	21.15	22.35	0.172	36.99	-14.64	20.20	0.105	34.77	-14.57
1.4 MHz	QPSK	699.70	V	142	116	1.08	1 / 0	21.80	22.88	0.194	36.99	-14.11	20.73	0.118	34.77	-14.04
	QPSK	707.50	V	149	123	1.14	1 / 0	21.83	22.98	0.198	36.99	-14.01	20.83	0.121	34.77	-13.94
	QPSK	715.30	V	149	119	1.21	1 / 5	21.89	23.09	0.204	36.99	-13.90	20.94	0.124	34.77	-13.83
	16-QAM	715.30	V	149	119	1.21	1 / 5	21.04	22.25	0.168	36.99	-14.74	20.10	0.102	34.77	-14.67
10 MHz	Opposite Pol.	704.00	H	212	172	1.14	1 / 25	20.10	21.24	0.133	36.99	-15.75	19.09	0.081	34.77	-15.68

Table 7-15. ERP Data (LTE Band 12/17) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	H	231	1	1.09	1 / 25	21.66	22.75	0.188	36.99	-14.24	20.60	0.115	34.77	-14.18
	16-QAM	782.00	H	231	1	1.09	1 / 25	20.99	22.08	0.161	36.99	-14.91	19.93	0.098	34.77	-14.85
5 MHz	QPSK	779.50	H	231	1	1.11	1 / 0	21.67	22.77	0.189	36.99	-14.22	20.62	0.115	34.77	-14.15
	QPSK	782.00	H	231	1	1.09	1 / 24	21.70	22.79	0.190	36.99	-14.20	20.64	0.116	34.77	-14.13
	QPSK	784.50	H	231	1	1.06	1 / 24	21.83	22.90	0.195	36.99	-14.09	20.75	0.119	34.77	-14.02
	16-QAM	782.00	H	231	1	1.09	1 / 24	21.23	22.31	0.170	36.99	-14.68	20.16	0.104	34.77	-14.61
10 MHz	Opposite Pol.	782.00	V	133	79	0.89	1 / 25	21.60	22.49	0.177	36.99	-14.50	20.34	0.108	34.77	-14.43

Table 7-16. ERP Data (LTE Band 13) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	V	123	100	2.90	1 / 0	20.51	23.41	0.219	30.00	-6.59
	QPSK	1745.00	V	123	88	2.94	1 / 99	21.01	23.95	0.248	30.00	-6.05
	QPSK	1770.00	V	126	95	3.02	1 / 0	20.53	23.55	0.226	30.00	-6.45
	16-QAM	1745.00	V	123	88	2.94	1 / 99	20.47	23.41	0.219	30.00	-6.59
15 MHz	QPSK	1717.50	V	123	100	2.89	1 / 74	20.37	23.26	0.212	30.00	-6.74
	QPSK	1745.00	V	123	88	2.94	1 / 74	21.13	24.08	0.256	30.00	-5.92
	QPSK	1772.50	V	126	95	3.03	1 / 0	20.49	23.52	0.225	30.00	-6.48
	16-QAM	1745.00	V	123	88	2.94	1 / 74	20.60	23.54	0.226	30.00	-6.46
10 MHz	QPSK	1715.00	V	123	100	2.89	1 / 49	20.32	23.21	0.210	30.00	-6.79
	QPSK	1745.00	V	123	88	2.94	1 / 0	21.09	24.03	0.253	30.00	-5.97
	QPSK	1775.00	V	126	95	3.04	1 / 49	20.52	23.55	0.227	30.00	-6.45
	16-QAM	1745.00	V	123	88	2.94	1 / 49	20.55	23.50	0.224	30.00	-6.50
5 MHz	QPSK	1712.50	V	123	100	2.88	1 / 0	20.15	23.03	0.201	30.00	-6.97
	QPSK	1745.00	V	123	88	2.94	1 / 24	21.22	24.16	0.261	30.00	-5.84
	QPSK	1777.50	V	126	95	3.05	1 / 12	20.56	23.61	0.230	30.00	-6.39
	16-QAM	1745.00	V	123	88	2.94	1 / 24	20.45	23.39	0.218	30.00	-6.61
3 MHz	QPSK	1711.50	V	123	100	2.88	1 / 7	20.06	22.94	0.197	30.00	-7.06
	QPSK	1745.00	V	123	88	2.94	1 / 14	21.21	24.16	0.260	30.00	-5.84
	QPSK	1778.50	V	126	95	3.05	1 / 14	20.37	23.42	0.220	30.00	-6.58
	16-QAM	1745.00	V	123	88	2.94	1 / 14	20.55	23.49	0.223	30.00	-6.51
1.4 MHz	QPSK	1710.70	V	123	100	2.88	1 / 5	20.07	22.96	0.197	30.00	-7.04
	QPSK	1745.00	V	123	88	2.94	1 / 0	21.06	24.00	0.251	30.00	-6.00
	QPSK	1779.30	V	126	95	3.05	1 / 5	20.38	23.44	0.221	30.00	-6.56
	16-QAM	1745.00	V	123	88	2.94	1 / 5	20.63	23.58	0.228	30.00	-6.42
20 MHz	Opposite Pol.	1745.00	H	126	15	2.84	1 / 0	20.49	23.33	0.215	30.00	-6.67

Table 7-17. EIRP Data (LTE Band 66/4) – Ant1

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1730.00	H	180	2	2.86	1 / 108	22.07	24.93	0.311	30.00	-5.07
	$\pi/2$ BPSK	1745.00	H	128	50	2.84	1 / 214	21.46	24.30	0.269	30.00	-5.70
	$\pi/2$ BPSK	1760.00	H	130	20	2.81	1 / 1	21.25	24.06	0.255	30.00	-5.94
	QPSK	1730.00	H	180	2	2.86	1 / 108	22.06	24.92	0.311	30.00	-5.08
	QPSK	1745.00	H	128	50	2.84	1 / 214	20.41	23.25	0.212	30.00	-6.75
	QPSK	1760.00	H	130	20	2.81	1 / 1	21.28	24.09	0.257	30.00	-5.91
30 MHz	16-QAM	1730.00	H	180	2	2.86	1 / 108	21.14	24.00	0.251	30.00	-6.00
	$\pi/2$ BPSK	1725.00	H	180	2	2.87	1 / 158	22.05	24.92	0.311	30.00	-5.08
	$\pi/2$ BPSK	1745.00	H	128	50	2.84	1 / 80	21.48	24.32	0.271	30.00	-5.68
	$\pi/2$ BPSK	1765.00	H	130	20	2.80	1 / 158	21.30	24.10	0.257	30.00	-5.90
	QPSK	1725.00	H	180	2	2.87	1 / 158	22.01	24.88	0.308	30.00	-5.12
	QPSK	1745.00	H	128	50	2.84	1 / 80	20.41	23.25	0.212	30.00	-6.75
25 MHz	QPSK	1765.00	H	130	20	2.80	1 / 158	21.35	24.15	0.260	30.00	-5.85
	16-QAM	1725.00	H	180	2	2.87	1 / 1	21.25	24.12	0.258	30.00	-5.88
	$\pi/2$ BPSK	1722.5	H	180	2	2.87	1 / 131	21.89	24.76	0.299	30.00	-5.24
	$\pi/2$ BPSK	1745.0	H	128	50	2.84	1 / 66	21.39	24.23	0.265	30.00	-5.77
	$\pi/2$ BPSK	1767.5	H	130	20	2.80	1 / 131	21.31	24.10	0.257	30.00	-5.90
	QPSK	1722.5	H	180	2	2.87	1 / 131	21.86	24.73	0.297	30.00	-5.27
20 MHz	QPSK	1745.0	H	128	50	2.84	1 / 66	20.38	23.22	0.210	30.00	-6.78
	QPSK	1767.5	H	130	20	2.80	1 / 131	21.34	24.13	0.259	30.00	-5.87
	16-QAM	1722.5	H	180	2	2.87	1 / 1	21.09	23.96	0.249	30.00	-6.04
	$\pi/2$ BPSK	1720.00	H	180	2	2.88	1 / 104	22.09	24.96	0.314	30.00	-5.04
	$\pi/2$ BPSK	1745.00	H	128	50	2.84	1 / 53	21.51	24.35	0.273	30.00	-5.65
	$\pi/2$ BPSK	1770.00	H	130	20	2.79	1 / 104	21.37	24.16	0.261	30.00	-5.84
15 MHz	QPSK	1720.00	H	180	2	2.88	1 / 104	21.93	24.80	0.302	30.00	-5.20
	QPSK	1745.00	H	128	50	2.84	1 / 53	20.42	23.26	0.212	30.00	-6.74
	QPSK	1770.00	H	130	20	2.79	1 / 104	21.43	24.22	0.264	30.00	-5.78
	16-QAM	1720.00	H	180	2	2.88	1 / 1	21.29	24.16	0.261	30.00	-5.84
	$\pi/2$ BPSK	1717.50	H	180	2	2.88	1 / 77	21.89	24.77	0.300	30.00	-5.23
	$\pi/2$ BPSK	1745.00	H	128	50	2.84	1 / 77	21.51	24.35	0.273	30.00	-5.65
10 MHz	$\pi/2$ BPSK	1772.50	H	130	20	2.78	1 / 77	21.36	24.14	0.260	30.00	-5.86
	QPSK	1717.50	H	180	2	2.88	1 / 77	21.85	24.73	0.297	30.00	-5.27
	QPSK	1745.00	H	128	50	2.84	1 / 39	20.42	23.26	0.212	30.00	-6.74
	QPSK	1772.50	H	130	20	2.78	1 / 77	21.40	24.18	0.262	30.00	-5.82
	16-QAM	1717.50	H	180	2	2.88	1 / 1	21.32	24.20	0.263	30.00	-5.80
	$\pi/2$ BPSK	1715.00	H	180	2	2.88	1 / 50	22.00	24.88	0.308	30.00	-5.12
5 MHz	$\pi/2$ BPSK	1745.00	H	128	50	2.84	1 / 50	21.48	24.32	0.271	30.00	-5.68
	$\pi/2$ BPSK	1775.00	H	130	20	2.78	1 / 50	21.45	24.22	0.264	30.00	-5.78
	QPSK	1715.00	H	180	2	2.88	1 / 50	21.88	24.76	0.299	30.00	-5.24
	QPSK	1745.00	H	128	50	2.84	1 / 50	20.49	23.33	0.215	30.00	-6.67
	QPSK	1775.00	H	130	20	2.78	1 / 50	21.49	24.26	0.267	30.00	-5.74
	16-QAM	1715.00	H	180	2	2.88	1 / 1	21.33	24.21	0.264	30.00	-5.79
40 MHz	$\pi/2$ BPSK	1712.50	H	180	2	2.89	1 / 23	21.81	24.69	0.295	30.00	-5.31
	$\pi/2$ BPSK	1745.00	H	128	50	2.84	1 / 23	21.48	24.32	0.271	30.00	-5.68
	$\pi/2$ BPSK	1777.50	H	130	20	2.77	1 / 23	21.38	24.15	0.260	30.00	-5.85
	QPSK	1712.50	H	180	2	2.89	1 / 23	21.71	24.59	0.288	30.00	-5.41
	QPSK	1745.00	H	128	50	2.84	1 / 23	20.44	23.28	0.213	30.00	-6.72
	QPSK	1777.50	H	130	20	2.77	1 / 23	21.43	24.20	0.263	30.00	-5.80
40 MHz	QPSK (CP-OFDM)	1730.00	H	127	32	2.84	1 / 108	20.47	23.31	0.214	30.00	-6.69

Table 7-18. EIRP Data (NR Band n66) – Ant1

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	H	133	205	2.90	1 / 0	20.43	23.33	0.215	30.00	-6.67
	QPSK	1745.00	H	127	203	2.94	1 / 99	20.50	23.44	0.221	30.00	-6.56
	QPSK	1770.00	H	166	202	3.02	1 / 99	21.53	24.55	0.285	30.00	-5.45
	16-QAM	1770.00	H	166	202	3.02	1 / 99	20.89	23.91	0.246	30.00	-6.09
15 MHz	QPSK	1717.50	H	133	205	2.89	1 / 0	21.11	24.00	0.251	30.00	-6.00
	QPSK	1745.00	H	127	203	2.94	1 / 37	21.09	24.04	0.253	30.00	-5.96
	QPSK	1772.50	H	166	202	3.03	1 / 0	21.91	24.94	0.312	30.00	-5.06
	16-QAM	1772.50	H	166	202	3.03	1 / 0	21.37	24.40	0.276	30.00	-5.60
10 MHz	QPSK	1715.00	H	133	205	2.89	1 / 25	21.05	23.93	0.247	30.00	-6.07
	QPSK	1745.00	H	127	203	2.94	1 / 0	21.05	24.00	0.251	30.00	-6.00
	QPSK	1775.00	H	166	202	3.04	1 / 0	21.84	24.88	0.307	30.00	-5.12
	16-QAM	1775.00	H	166	202	3.04	1 / 0	21.43	24.47	0.280	30.00	-5.53
5 MHz	QPSK	1712.50	H	133	205	2.88	1 / 0	21.12	24.01	0.252	30.00	-5.99
	QPSK	1745.00	H	127	203	2.94	1 / 24	21.08	24.03	0.253	30.00	-5.97
	QPSK	1777.50	H	166	202	3.05	1 / 24	21.89	24.93	0.311	30.00	-5.07
	16-QAM	1777.50	H	166	202	3.05	1 / 24	21.17	24.22	0.264	30.00	-5.78
3 MHz	QPSK	1711.50	H	133	205	2.88	1 / 0	21.04	23.92	0.247	30.00	-6.08
	QPSK	1745.00	H	127	203	2.94	1 / 14	20.98	23.92	0.247	30.00	-6.08
	QPSK	1778.50	H	166	202	3.05	1 / 0	21.80	24.85	0.305	30.00	-5.15
	16-QAM	1778.50	H	166	202	3.05	1 / 0	21.21	24.26	0.267	30.00	-5.74
1.4 MHz	QPSK	1710.70	H	133	205	2.88	1 / 5	20.89	23.77	0.238	30.00	-6.23
	QPSK	1745.00	H	127	203	2.94	1 / 3	20.90	23.84	0.242	30.00	-6.16
	QPSK	1779.30	H	166	202	3.05	1 / 3	21.83	24.88	0.308	30.00	-5.12
	16-QAM	1779.30	H	166	202	3.05	1 / 3	21.37	24.42	0.277	30.00	-5.58

Table 7-19. EIRP Data (LTE Band 66/4) – Ant2

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7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

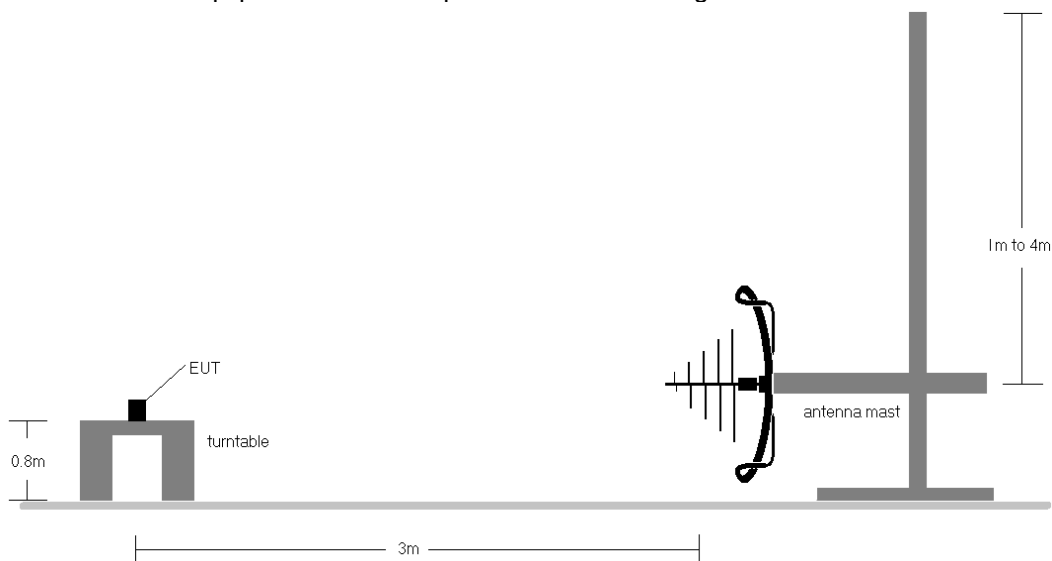


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

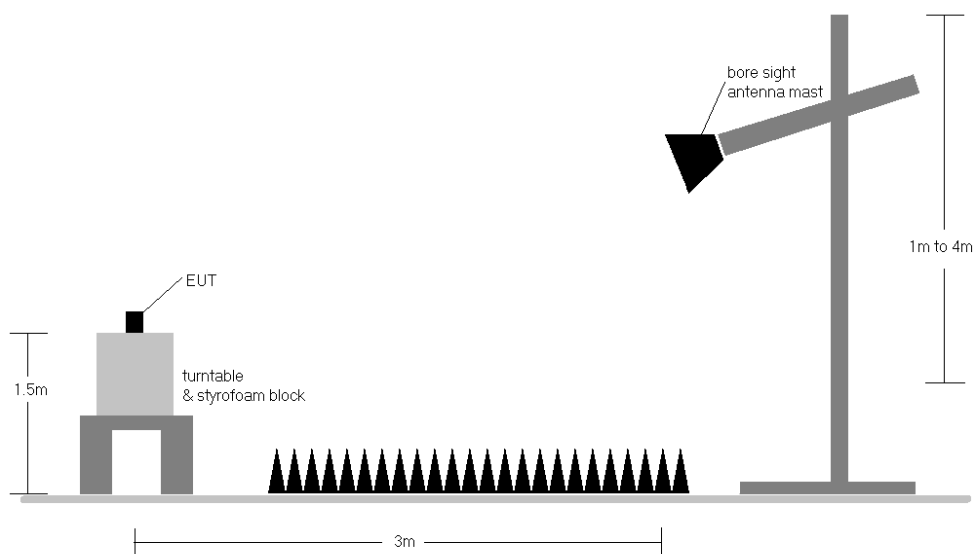


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

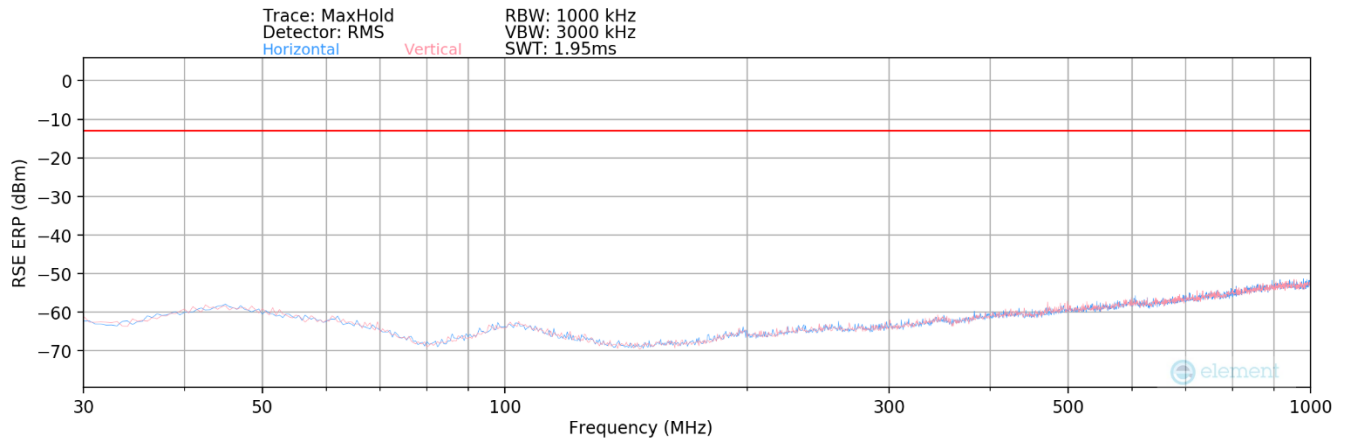
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Test Notes

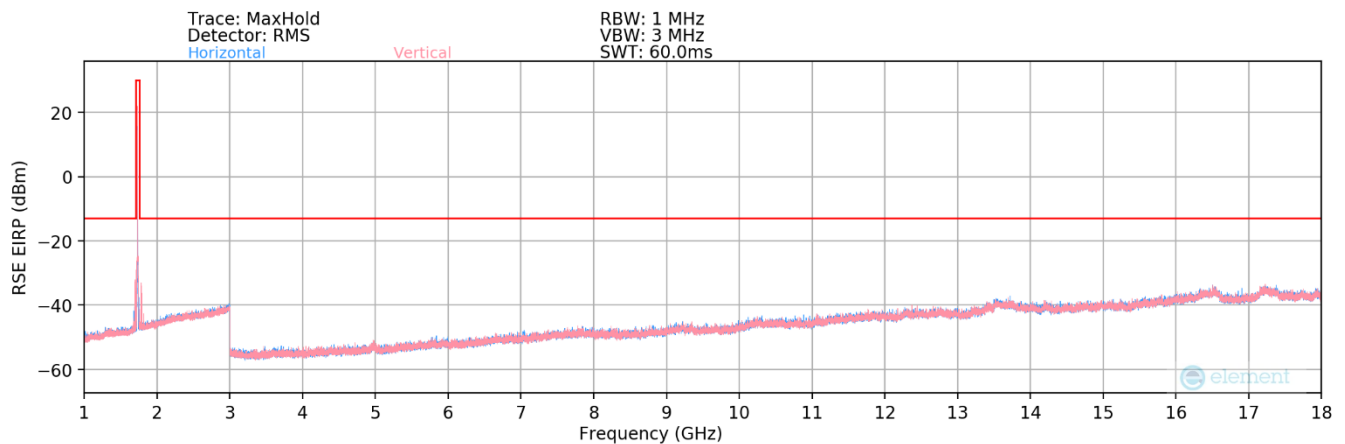
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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WCDMA AWS – Ant1



Plot 7-123. Radiated Spurious Plot (WCDMA AWS) – Ant1



Plot 7-124. Radiated Spurious Plot (WCDMA AWS) – Ant1

Mode:	Stand Alone
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
866.10	H	-	-	-59.55	-1.07	46.38	-51.03	-13.00	-38.03

Table 7-20. Radiated Spurious Data (WCDMA AWS) – Ant1

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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.80	H	-	-	-78.03	7.03	36.00	-59.26	-13.00	-46.26
5137.20	H	-	-	-78.21	10.60	39.39	-55.87	-13.00	-42.87
6849.60	H	-	-	-79.73	14.12	41.39	-53.87	-13.00	-40.87

7-21. Radiated Spurious Data (WCDMA AWS – Low Channel) – Ant1

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.20	H	-	-	-77.76	7.02	36.26	-59.00	-13.00	-46.00
5197.80	H	-	-	-80.03	10.25	37.22	-58.04	-13.00	-45.04
6930.40	H	-	-	-79.79	13.67	40.88	-54.38	-13.00	-41.38

Table 7-22. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

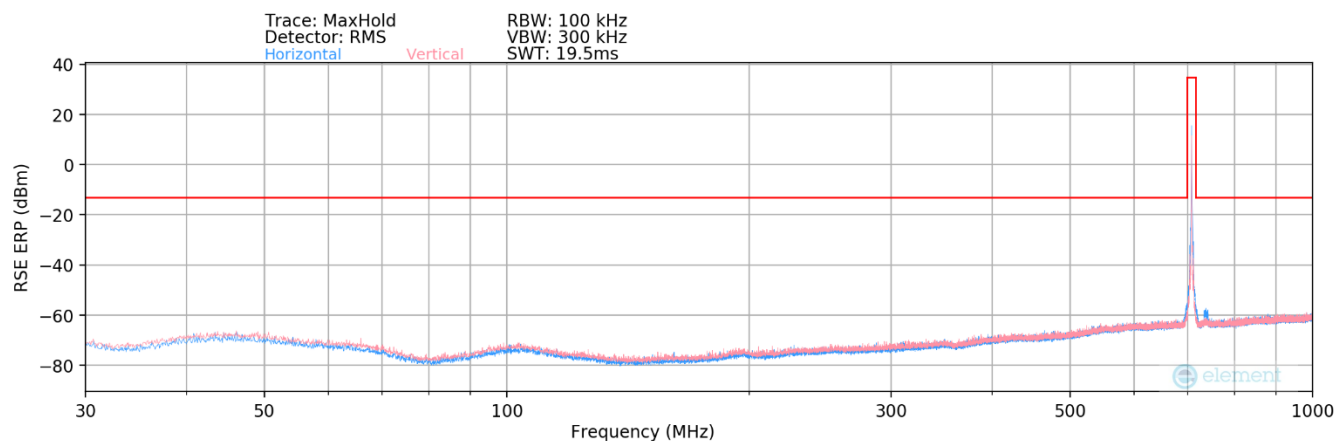
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.20	H	-	-	-78.05	7.16	36.11	-59.15	-13.00	-46.15
5257.80	H	-	-	-79.69	10.26	37.57	-57.69	-13.00	-44.69
7010.40	H	-	-	-80.19	14.37	41.18	-54.08	-13.00	-41.08

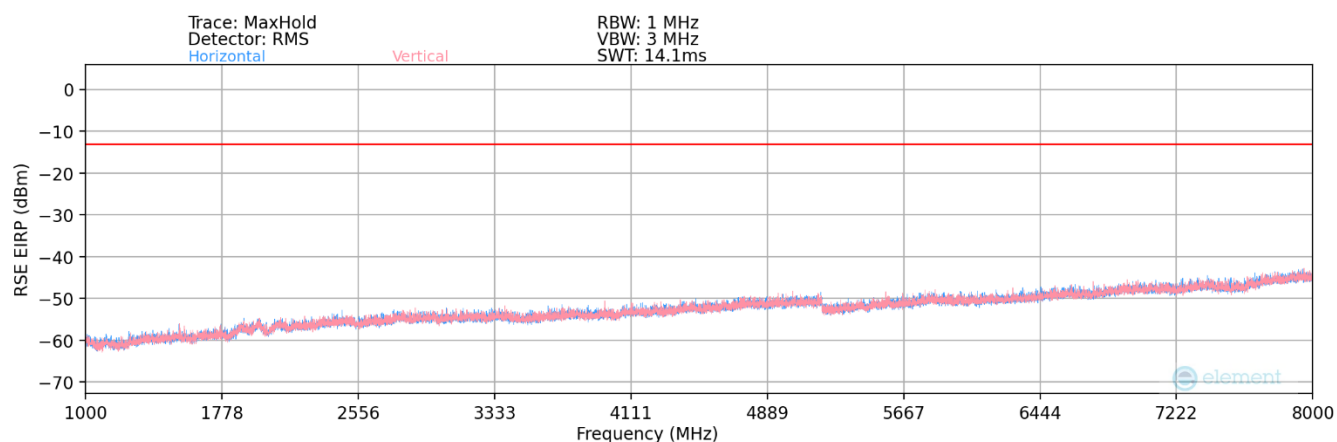
Table 7-23. Radiated Spurious Data (WCDMA AWS – High Channel) – Ant1

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Band 12/17 – Ant1



Plot 7-125. Radiated Spurious Plot (Band 12/17) – Ant1



Plot 7-126. Radiated Spurious Plot (Band 12/17) – Ant1

Mode:	Stand Alone
Channel:	23095
Frequency (MHz):	707.5

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
933.98	H	-	-	-79.14	-0.42	27.44	-69.97	-13.00	-56.97

Table 7-24. Radiated Spurious Data (Band 12/17 – Mid Channel) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet		Page 109 of 125

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.00	H	-	-	-75.74	-2.56	28.70	-66.56	-13.00	-53.56
2112.00	H	-	-	-76.28	1.75	32.47	-62.79	-13.00	-49.79
2816.00	H	-	-	-77.82	3.78	32.96	-62.29	-13.00	-49.29
3520.00	H	-	-	-77.56	4.21	33.65	-61.61	-13.00	-48.61
4224.00	H	-	-	-77.94	5.51	34.57	-60.69	-13.00	-47.69

Table 7-25. Radiated Spurious Data (Band 12/17 – Low Channel) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	H	-	-	-75.41	-2.66	28.70	-66.56	-13.00	-53.56
2122.50	H	-	-	-76.65	1.69	28.70	-66.56	-13.00	-53.56
2830.00	H	-	-	-77.29	3.52	28.70	-66.56	-13.00	-53.56
3537.50	H	-	-	-77.88	4.23	28.70	-66.56	-13.00	-53.56
4245.00	H	-	-	-76.88	5.46	28.70	-66.56	-13.00	-53.56

Table 7-26. Radiated Spurious Data (Band 12/17 – Mid Channel) – Ant1

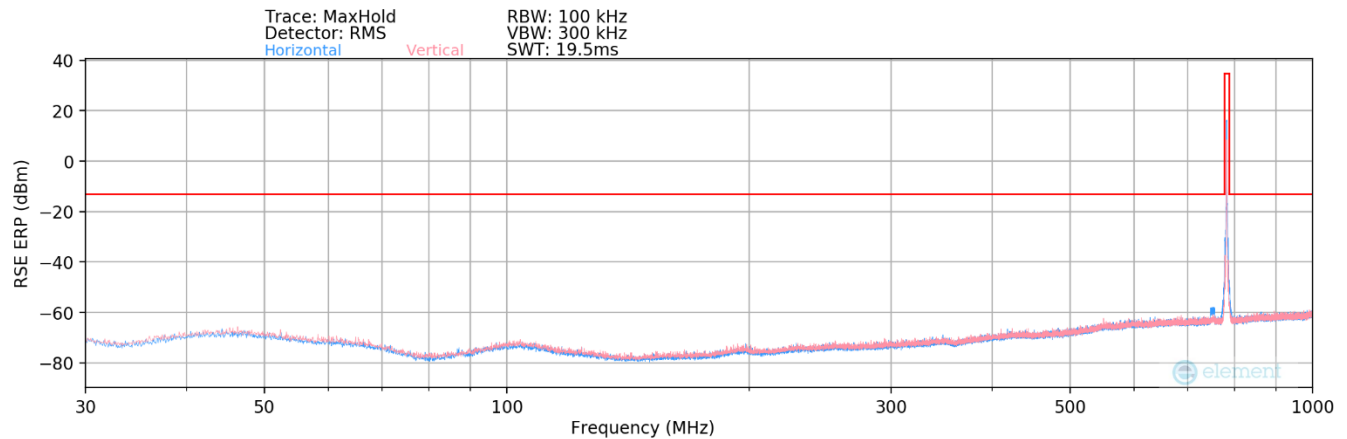
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	H	-	-	-75.45	-2.61	28.94	-66.31	-13.00	-53.31
2133.00	H	-	-	-75.91	1.64	32.73	-62.53	-13.00	-49.53
2844.00	H	-	-	-76.93	3.16	33.23	-62.03	-13.00	-49.03
3555.00	H	-	-	-77.30	4.32	34.02	-61.24	-13.00	-48.24
4266.00	H	-	-	-77.01	5.25	35.24	-60.01	-13.00	-47.01

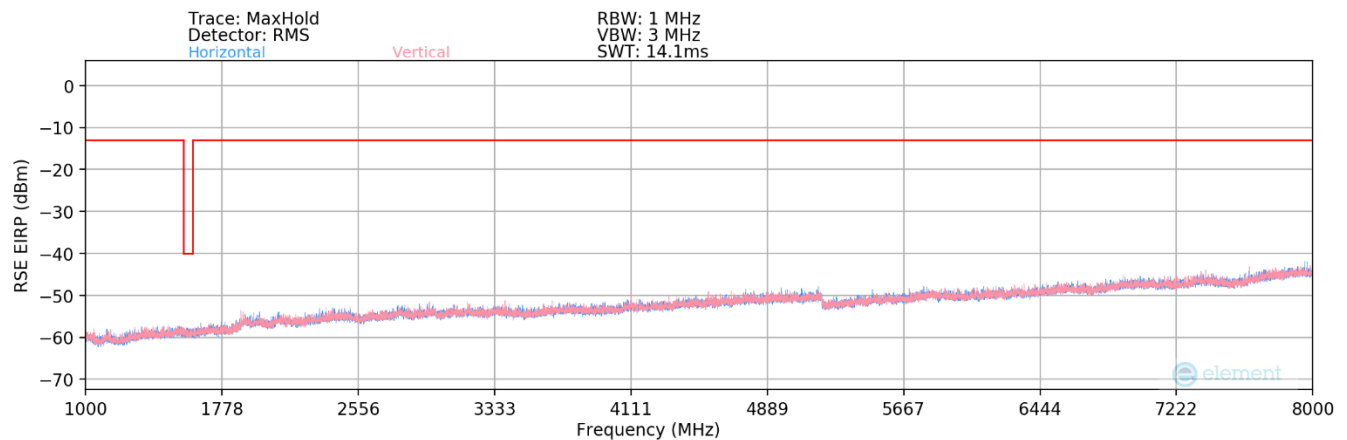
Table 7-27. Radiated Spurious Data (Band 12/17 – High Channel) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 110 of 125

LTE Band 13 – Ant1



Plot 7-127. Radiated Spurious Plot (LTE Band 13) – Ant1



Plot 7-128. Radiated Spurious Plot (LTE Band 13) – Ant1

Mode:	Stand Alone
Channel:	23230
Frequency (MHz):	782

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
900.40	H	-	-	-79.49	-0.69	26.82	-70.59	-13.00	-57.59

Table 7-28. Radiated Spurious Data (LTE Band 13) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet			Page 111 of 125	

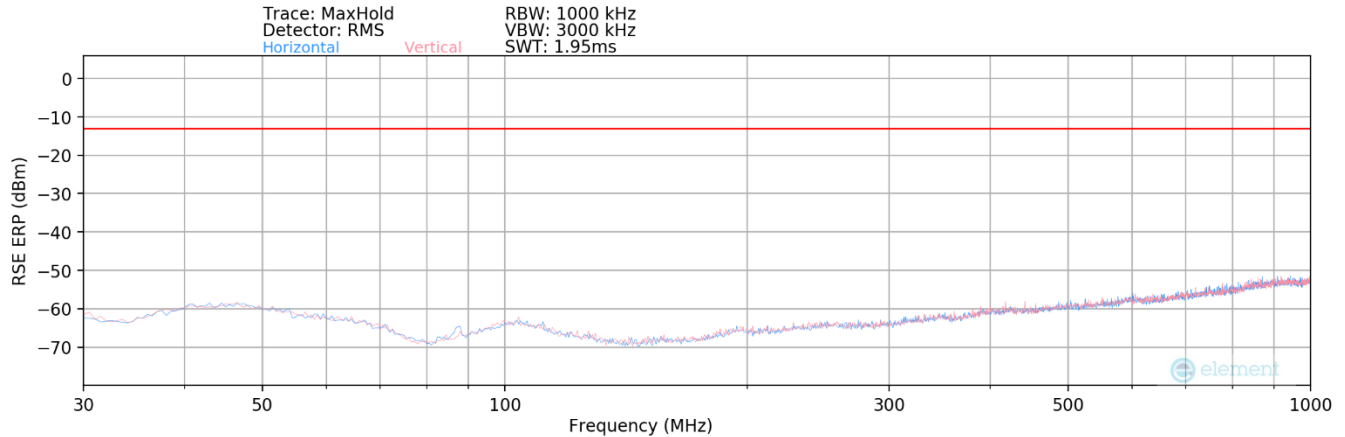
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	-	-	-81.62	-1.31	24.07	-71.18	-40.00	-31.18
2346.00	H	-	-	-81.87	2.18	27.31	-67.95	-13.00	-54.95
3128.00	H	-	-	-81.90	3.71	28.81	-66.45	-13.00	-53.45
3910.00	H	-	-	-82.13	4.71	29.58	-65.67	-13.00	-52.67
4692.00	H	-	-	-79.84	5.92	33.08	-62.18	-13.00	-49.18

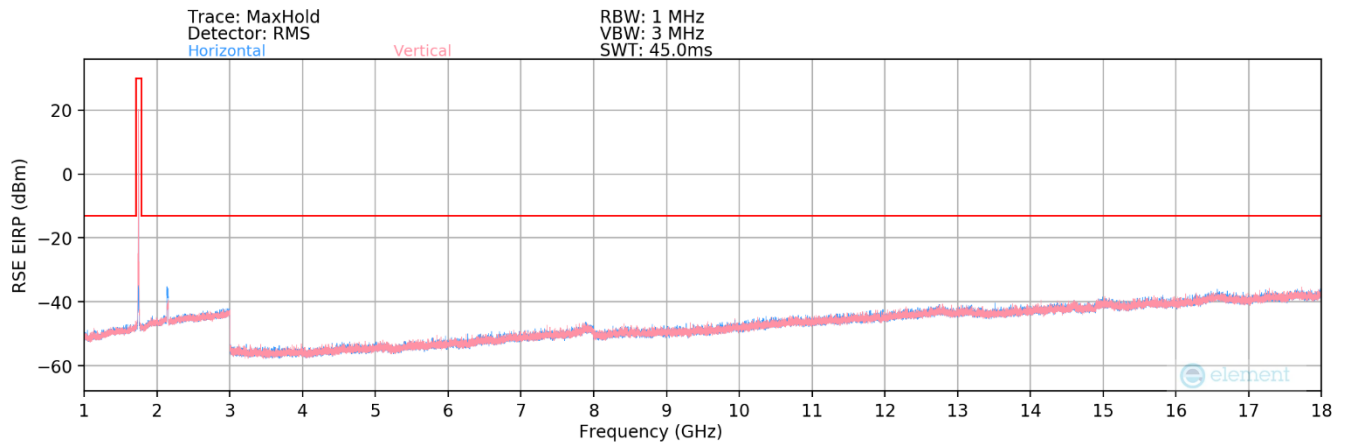
Table 7-29. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 112 of 125

LTE Band 66/4 – Ant1



Plot 7-129. Radiated Spurious Plot (LTE Band 66/4) – Ant1



Plot 7-130. Radiated Spurious Plot (LTE Band 66/4) – Ant1

Mode:	Stand Alone
Channel:	132322
Frequency (MHz):	1745

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
934.38	H	-	-	-79.47	-0.43	27.10	-70.31	-13.00	-57.31

Table 7-30. Radiated Spurious Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet		Page 113 of 125

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	142	358	-74.76	5.30	37.54	-57.72	-13.00	-44.72
5160.00	H	-	-	-78.17	7.58	36.41	-58.85	-13.00	-45.85
6880.00	H	-	-	-78.72	11.75	40.03	-55.22	-13.00	-42.22
8600.00	H	-	-	-78.38	13.68	42.30	-52.96	-13.00	-39.96
10320.00	H	-	-	-79.13	16.29	44.16	-51.10	-13.00	-38.10
12040.00	H	-	-	-79.01	18.67	46.66	-48.60	-13.00	-35.60

Table 7-31. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	300	27	-76.01	5.13	36.12	-59.14	-13.00	-46.14
5235.00	H	-	-	-78.49	7.29	35.80	-59.46	-13.00	-46.46
6980.00	H	-	-	-78.20	11.11	39.91	-55.35	-13.00	-42.35
8725.00	H	-	-	-79.25	13.48	41.23	-54.03	-13.00	-41.03
10470.00	H	-	-	-78.87	17.01	45.14	-50.12	-13.00	-37.12
12215.00	H	-	-	-77.95	19.36	48.41	-46.85	-13.00	-33.85

Table 7-32. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant1

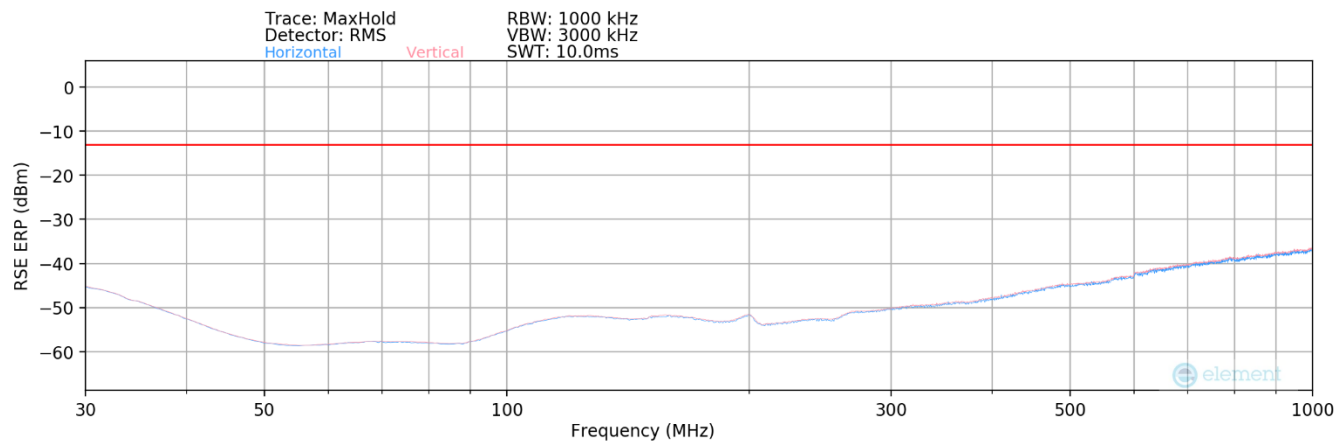
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	159	2	-76.01	5.04	36.03	-59.23	-13.00	-46.23
5310.00	H	-	-	-77.97	7.58	36.61	-58.65	-13.00	-45.65
7080.00	H	-	-	-78.23	11.66	40.43	-54.83	-13.00	-41.83
8850.00	H	-	-	-79.22	13.88	41.66	-53.59	-13.00	-40.59
10620.00	H	-	-	-79.55	16.98	44.43	-50.82	-13.00	-37.82
12390.00	H	-	-	-78.34	19.57	48.23	-47.02	-13.00	-34.02

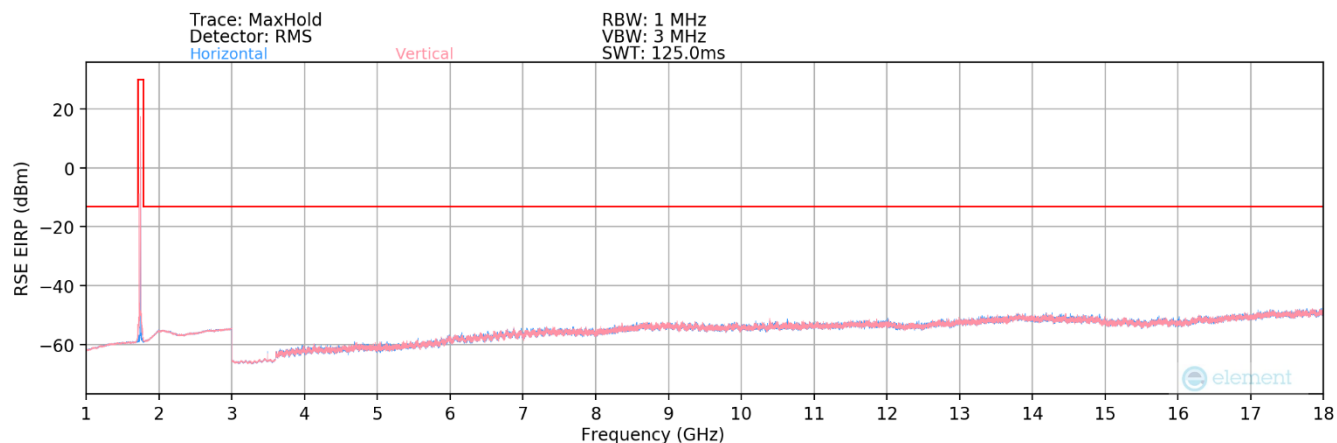
Table 7-33. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 114 of 125

NR Band n66 – Ant1



Plot 7-131. Radiated Spurious Plot (NR Band n66) – Ant1



Plot 7-132. Radiated Spurious Plot (NR Band n66) – Ant1

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
672.14	V	-	-	-90.17	28.50	45.33	-52.08	-13.00	-39.08

Table 7-34. Radiated Spurious Data (NR Band n66) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet		Page 115 of 125

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	V	129	317	-76.40	0.17	30.77	-64.49	-13.00	-51.49
5190.00	V	-	-	-79.15	3.38	31.23	-64.03	-13.00	-51.03
6920.00	V	-	-	-80.02	8.47	35.45	-59.81	-13.00	-46.81
8650.00	V	-	-	-80.28	11.57	38.29	-56.97	-13.00	-43.97

Table 7-35. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant1

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	172	319	-75.21	0.06	31.85	-63.41	-13.00	-50.41
5235.00	V	-	-	-79.10	3.37	31.27	-63.99	-13.00	-50.99
6980.00	V	-	-	-78.88	7.96	36.08	-59.18	-13.00	-46.18
8725.00	V	-	-	-80.05	11.68	38.63	-56.63	-13.00	-43.63

Table 7-36. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant1

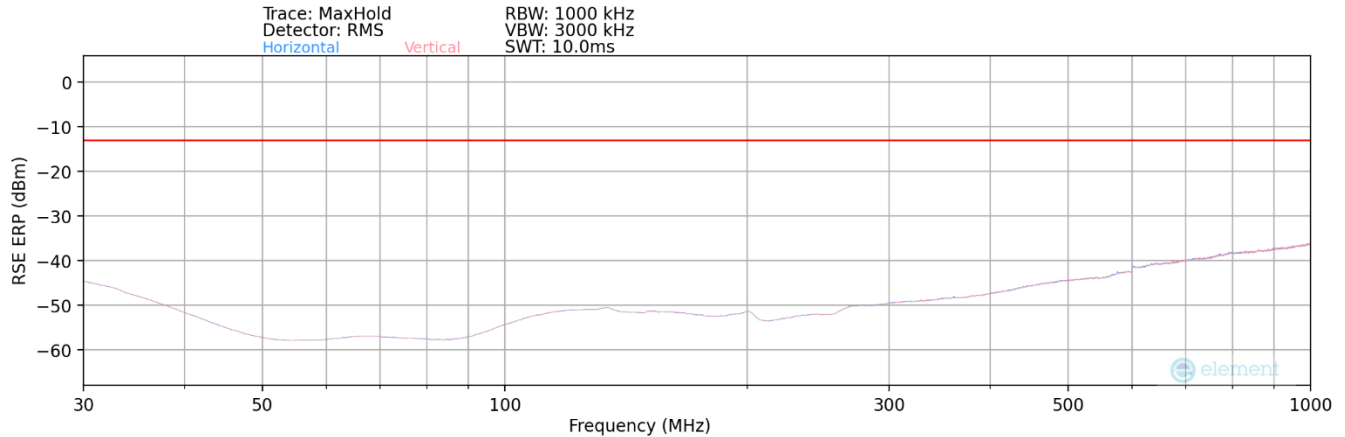
Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	V	208	204	-75.90	-0.06	31.04	-64.22	-13.00	-51.22
5280.00	V	-	-	-78.80	3.28	31.48	-63.78	-13.00	-50.78
7040.00	V	-	-	-78.89	8.10	36.21	-59.04	-13.00	-46.04
8800.00	V	-	-	-80.15	11.06	37.91	-57.35	-13.00	-44.35

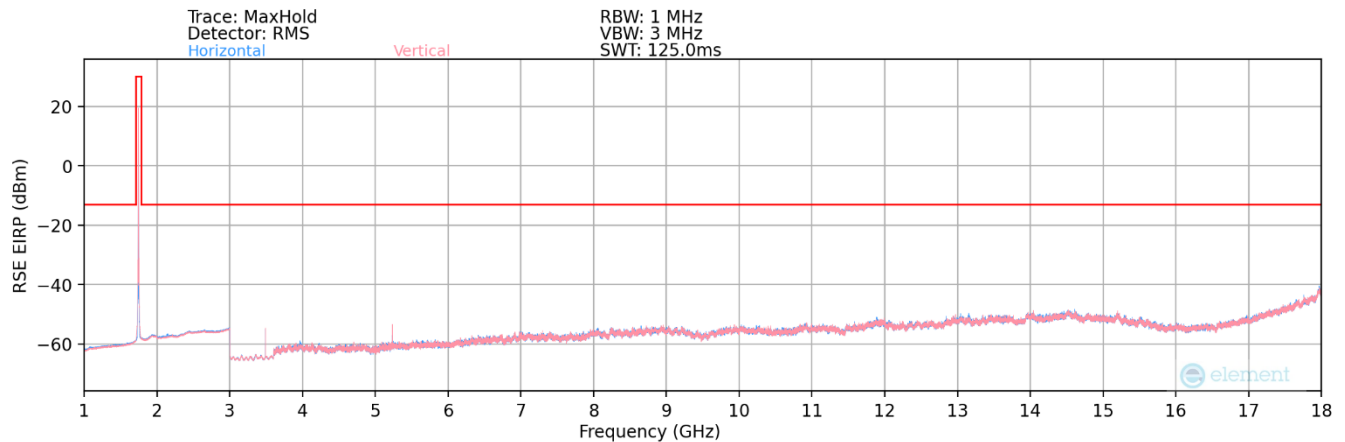
Table 7-37. Radiated Spurious Data (NR Band n66 – High Channel) – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – Ant2



Plot 7-133. Radiated Spurious Plot (LTE Band 66/4) – Ant2



Plot 7-134. Radiated Spurious Plot (LTE Band 66/4) – Ant2

Bandwidth (MHz):	20
Channel:	1770
Frequency (MHz):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
79.24	H	-	-	-84.14	14.18	37.04	-60.37	-13.00	-47.37
217.70	H	-	-	-84.12	17.74	40.62	-56.79	-13.00	-43.79
408.73	H	-	-	-84.05	23.52	46.47	-50.94	-13.00	-37.94

Table 7-38. Radiated Spurious Data (LTE Band 66/4) – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet		Page 117 of 125

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	229	152	-66.01	-2.22	38.77	-56.49	-13.00	-43.49
5160.00	H	293	205	-72.75	-0.39	33.86	-61.40	-13.00	-48.40
6880.00	H	-	-	-75.25	3.40	35.15	-60.10	-13.00	-47.10
8600.00	H	-	-	-77.16	5.95	35.79	-59.47	-13.00	-46.47
10320.00	H	-	-	-77.61	7.62	37.01	-58.25	-13.00	-45.25

Table 7-39. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	205	142	-61.04	-2.77	43.19	-52.07	-13.00	-39.07
5235.00	H	154	147	-66.95	-0.24	39.81	-55.45	-13.00	-42.45
6980.00	H	-	-	-76.10	4.38	35.28	-59.98	-13.00	-46.98
8725.00	H	-	-	-76.64	6.26	36.62	-58.63	-13.00	-45.63
10470.00	H	-	-	-78.15	7.91	36.76	-58.50	-13.00	-45.50

Table 7-40. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	194	139	-60.06	-2.35	44.59	-50.66	-13.00	-37.66
5310.00	H	167	174	-63.77	-0.19	43.04	-52.22	-13.00	-39.22
7080.00	H	-	-	-75.42	3.91	35.49	-59.77	-13.00	-46.77
8850.00	H	-	-	-76.35	6.41	37.06	-58.19	-13.00	-45.19
10620.00	H	-	-	-78.23	8.12	36.89	-58.37	-13.00	-45.37

Table 7-41. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

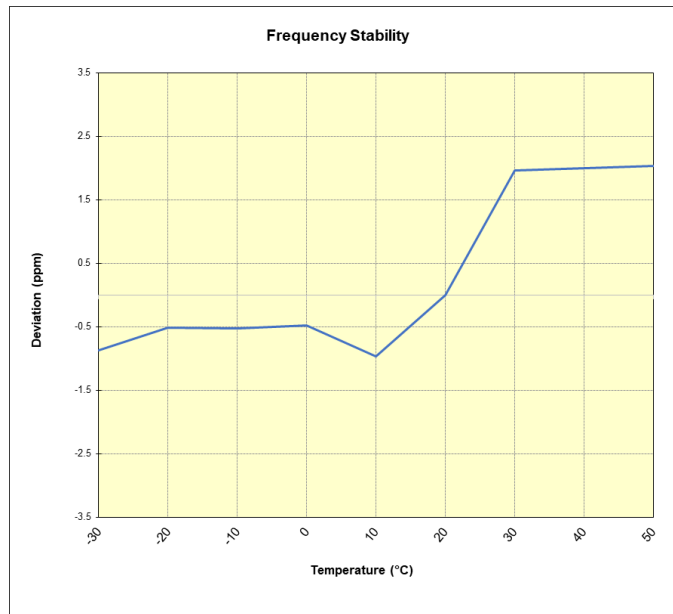
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS

Operating Frequency (Hz):	1,732,600,000
Ref. Voltage (VDC):	4.436
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,732,688,042	-1,511	-0.0000872
		- 20	1,732,688,661	-892	-0.0000515
		- 10	1,732,688,638	-915	-0.0000528
		0	1,732,688,721	-832	-0.0000480
		+ 10	1,732,687,876	-1,677	-0.0000968
		+ 20 (Ref)	1,732,689,553	0	0.0000000
		+ 30	1,732,692,954	3,402	0.0001963
		+ 40	1,732,693,011	3,459	0.0001996
		+ 50	1,732,693,076	3,524	0.0002034
Battery Endpoint	3.67	+ 20	1,732,689,991	438	0.0000253

Table 7-42. WCDMA AWS Frequency Stability Data



Plot 7-135. WCDMA AWS Frequency Stability Chart

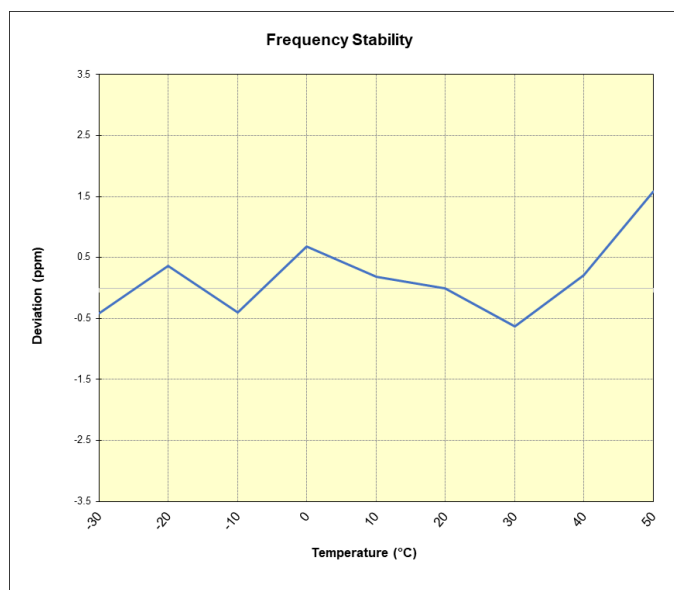
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	4.436
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	707,585,517	-296	-0.0000418
		- 20	707,586,071	259	0.0000366
		- 10	707,585,526	-286	-0.0000404
		0	707,586,298	485	0.0000686
		+ 10	707,585,946	134	0.0000189
		+ 20 (Ref)	707,585,813	0	0.0000000
		+ 30	707,585,367	-446	-0.0000630
		+ 40	707,585,965	152	0.0000215
		+ 50	707,586,937	1,124	0.0001589
Battery Endpoint	3.67	+ 20	707,585,998	185	0.0000261

Table 7-43. LTE Band 12/17 Frequency Stability Data



Plot 7-136. LTE Band 12/17 Frequency Stability Chart

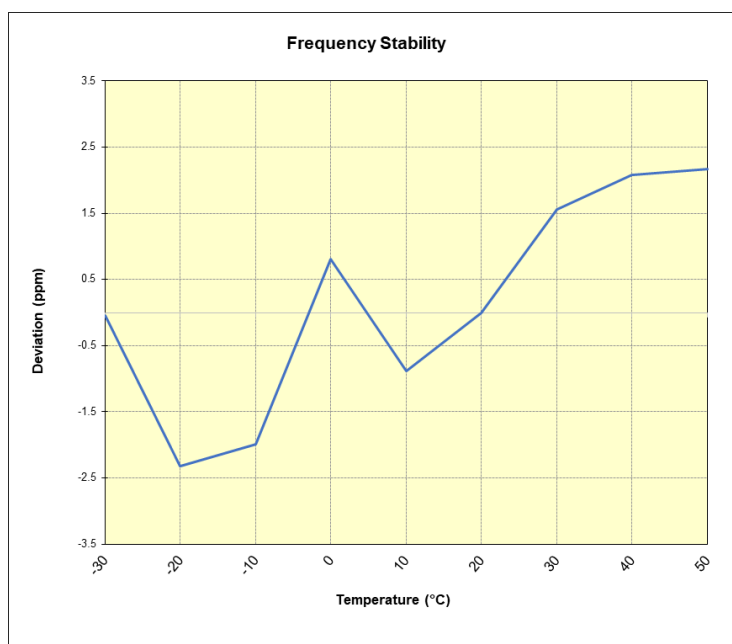
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13

Operating Frequency (Hz):	782,000,000
Ref. Voltage (VDC):	4.436
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	782,085,474	-39	-0.0000050
		- 20	782,083,699	-1,814	-0.0002320
		- 10	782,083,952	-1,562	-0.0001997
		0	782,086,143	630	0.0000805
		+ 10	782,084,823	-690	-0.0000883
		+ 20 (Ref)	782,085,513	0	0.0000000
		+ 30	782,086,737	1,223	0.0001564
		+ 40	782,087,139	1,626	0.0002079
		+ 50	782,087,207	1,693	0.0002165
Battery Endpoint	3.67	+ 20	782,085,194	-319	-0.0000408

Table 7-44. LTE Band 13 Frequency Stability Data



Plot 7-137. LTE Band 13 Frequency Stability Chart

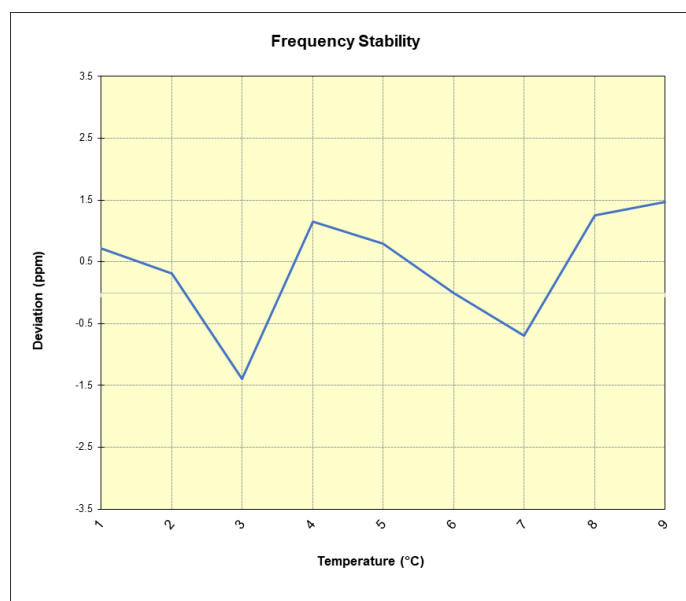
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 122 of 125

LTE Band 66/4

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.436
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,755,090,990	1,269	0.0000723
		- 20	1,755,090,261	540	0.0000308
		- 10	1,755,087,270	-2,451	-0.0001397
		0	1,755,091,745	2,024	0.0001153
		+ 10	1,755,091,110	1,389	0.0000791
		+ 20 (Ref)	1,755,089,721	0	0.0000000
		+ 30	1,755,088,498	-1,223	-0.0000697
		+ 40	1,755,091,917	2,196	0.0001251
		+ 50	1,755,092,299	2,578	0.0001469
Battery Endpoint	3.67	+ 20	1,755,089,941	220	0.0000125

Table 7-45. LTE Band 66/4 Frequency Stability Data



Plot 7-138. LTE Band 66/4 Frequency Stability Chart

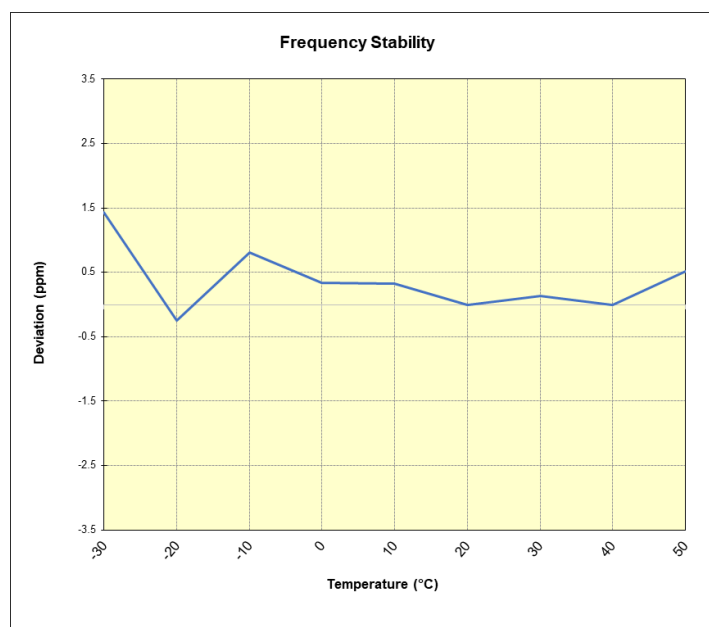
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 123 of 125

NR Band n66

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.436
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,744,915,961	2,495	0.0001430
		- 20	1,744,913,024	-442	-0.0000254
		- 10	1,744,914,873	1,407	0.0000806
		0	1,744,914,056	589	0.0000338
		+ 10	1,744,914,031	564	0.0000323
		+ 20 (Ref)	1,744,913,467	0	0.0000000
		+ 30	1,744,913,694	227	0.0000130
		+ 40	1,744,913,461	-6	-0.0000003
		+ 50	1,744,914,376	909	0.0000521
Battery Endpoint	3.67	+ 20	1,744,913,769	302	0.0000173

Table 7-46. NR Band n66 Frequency Stability Data



Plot 7-139. NR Band n66 Frequency Stability Chart

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX736B** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 125 of 125